

Report of Test

LLIA002378-008

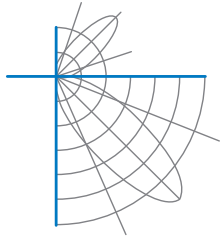
Catalog Number: SP-1200PS-50K - 1000W Setting
Pole mounted, cast aluminum housing, clear enclosure.
1232 white LEDs with plastic optics in front of each.
Two uPowerTek BLD-600-C420-ENU LED drivers
120.0Vac, 60.00Hz, 8.778A, 1043.6W, 0.991PF, 11.6%THD(i)



Performance Summary

Total Light Output	161407	lm	Illuminance at 10m	4488.0 lux
Luminaire Power	1043.3	W	Beam Distance	1339.9 Meters (to 0.25 lux)
Luminous Efficacy	154.7	lm/W		
Beam Spread (50%)	24.5° V x 24.5° H		Maximum Intensity	448800 cd
Field Spread (10%)	58.1° V x 58.2° H			
NEMA Type	4H x 4V			

PREPARED FOR : Topaz Lighting, A Southwire Company, 925 Waverly Ave, Holtsville, NY



Test Report No. LLIA002378-008

Catalog Number: SP-1200PS-50K - 1000W Setting
Pole mounted, cast aluminum housing, clear enclosure.
1232 white LEDs with plastic optics in front of each.
Two uPowerTek BLD-600-C420-ENU LED drivers
120.0Vac, 60.00Hz, 8.778A, 1043.6W, 0.991PF, 11.6%THD(i)

Floodlight Summary:

Report data based on absolute values as measured.

Maximum Luminous Intensity 448800.0 cd
(Luminaire orientation as tested.) -0.5° vertical
0.0° horizontal

Beam Spread	At 10% of max intensity	58.1° V	x	58.2° H
	At 50% of max intensity	24.5° V	x	24.5° H
	At 90% of max intensity	10.3° V	x	9.9° H

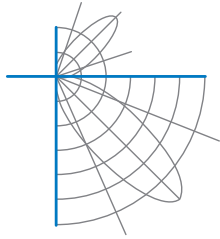
Beam Flux	Total	161407 lm
	To 10% of max intensity	112606 lm
	To 50% of max intensity	49000 lm
	To 90% of max intensity	9976 lm

Total Light Output 161407.5 lm

Signed:

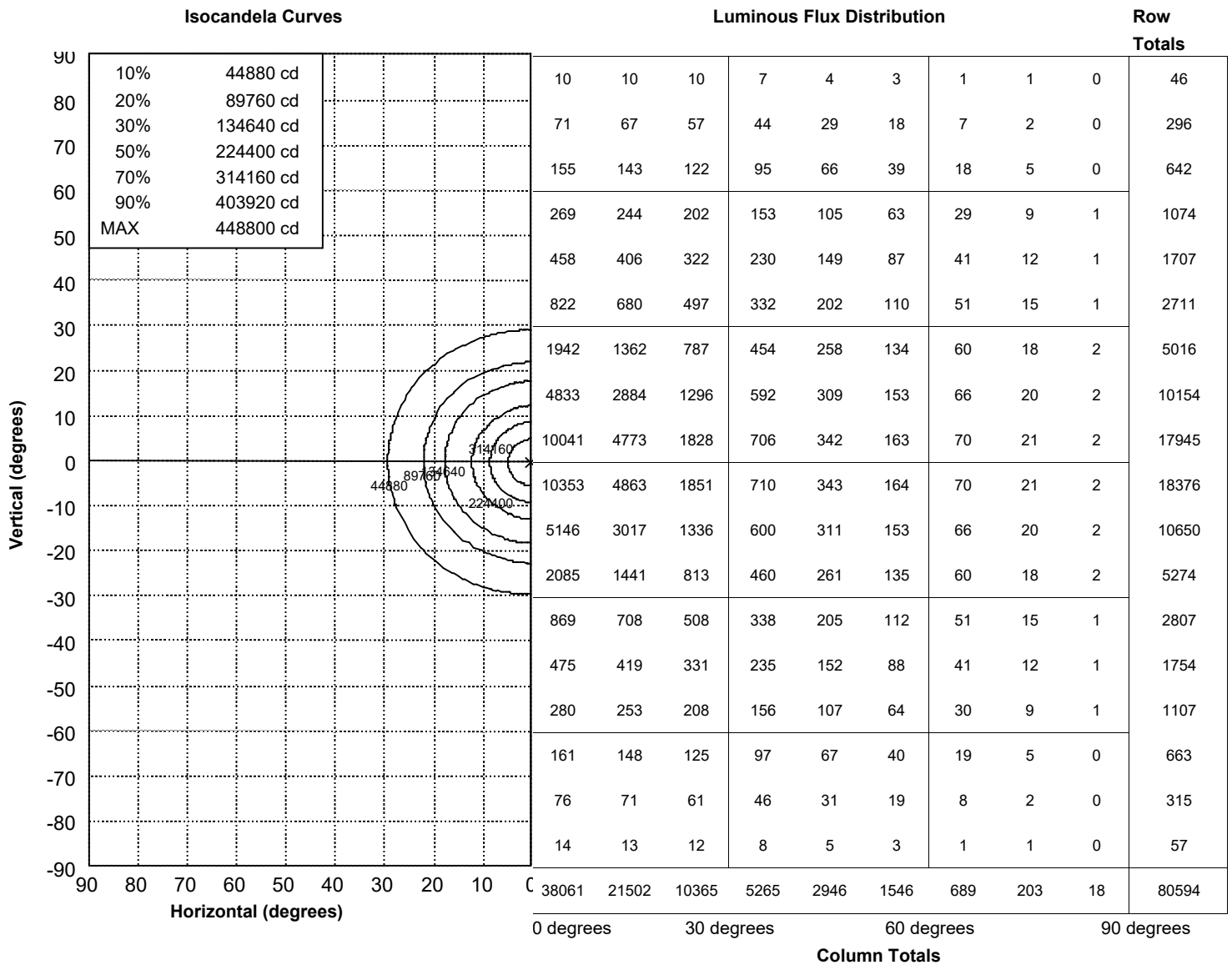
Authorized Signatory

Date of test 2-May-2024
Date of report 2-May-2024

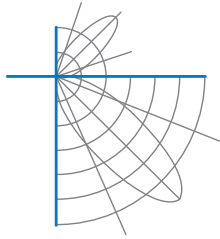


Test Report No. LLIA002378-008

Catalog Number: SP-1200PS-50K - 1000W Setting
Pole mounted, cast aluminum housing, clear enclosure.
1232 white LEDs with plastic optics in front of each.
Two uPowerTek BLD-600-C420-ENU LED drivers
120.0Vac, 60.00Hz, 8.778A, 1043.6W, 0.991PF, 11.6%THD(i)



Note: Left and right sides of photometric data have been averaged.
Lumen values are tabulated as absolute lumen values.
Candela values are tabulated as absolute candela values.



Test Report No. LLIA002378-008

Catalog Number: SP-1200PS-50K - 1000W Setting
Pole mounted, cast aluminum housing, clear enclosure.
1232 white LEDs with plastic optics in front of each.
Two uPowerTek BLD-600-C420-ENU LED drivers
120.0Vac, 60.00Hz, 8.778A, 1043.6W, 0.991PF, 11.6%THD(i)

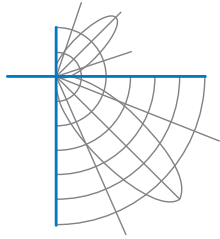
Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals
	-90	-60	-30	0	30	60	90	120	150	
-90	24.4 0.1	68.6 0.6	102.6 1.4	132.6 3.1	144.3 5.3	234.1 8.2	329.7 11.7	320.8 13.2	315.8 13.8	57
	67.5 0.2	202.4 1.9	585.6 7.9	1058.0 18.5	1403.1 31.2	1847.3 46.4	2194.3 60.7	2409.1 71.1	2499.3 76.4	315
	108.8 0.4	560.0 5.0	1436.4 18.8	2268.0 40.1	3118.3 67.4	3895.2 97.4	4526.2 125.4	4998.1 147.7	5277.1 160.9	663
-60	146.9 0.7	1044.4 8.8	2248.7 29.9	3626.2 63.7	4958.5 107.1	6231.8 156.4	7452.0 207.7	8498.1 252.8	9140.1 280.2	1107
	180.5 1.1	1471.3 12.3	3137.3 41.1	4968.8 87.8	6929.4 151.7	9334.8 235.0	11930.9 331.2	14173.8 419.5	15531.9 474.7	1754
	208.5 1.4	1827.2 15.4	3908.2 51.2	6355.6 111.7	9424.4 204.7	13464.0 337.9	18166.4 507.9	23445.7 707.5	27707.6 868.8	2807
-30	229.9 1.6	2101.0 17.9	4519.5 59.9	7575.9 135.0	11921.8 260.8	18194.8 460.4	28486.9 812.5	47204.4 1441.0	66538.2 2084.7	5274
	244.0 1.8	2286.3 19.7	4954.4 66.2	8503.9 153.5	14190.9 311.3	23456.0 599.6	46786.2 1335.8	100957.3 3017.0	166513.6 5145.6	10650
	250.3 1.9	2380.7 20.5	5185.5 69.6	9019.9 163.8	15550.3 342.7	27612.2 710.4	65065.8 1850.6	162564.7 4863.2	365136.3 10353.4	18376
0	249.7 1.8	2378.8 20.5	5180.3 69.6	9003.9 163.5	15506.2 341.7	27452.4 706.2	64233.6 1827.6	159665.4 4772.5	352468.8 10041.2	17945
	242.3 1.8	2281.0 19.6	4936.8 66.0	8458.7 152.6	14085.0 308.9	23170.1 591.8	45388.7 1296.4	96390.6 2884.1	156761.0 4833.0	10154
	227.3 1.6	2092.4 17.9	4493.3 59.5	7509.3 133.8	11782.0 257.7	17944.2 453.7	27646.9 787.4	44612.3 1362.3	61872.0 1942.4	5016
30	205.4 1.4	1816.2 15.3	3877.5 50.8	6280.7 110.4	9283.2 201.7	13242.2 332.3	17796.7 496.6	22595.7 679.8	26268.7 822.4	2711
	177.3 1.0	1458.2 12.2	3106.7 40.6	4897.2 86.6	6819.1 149.2	9136.4 230.0	11612.1 322.5	13730.1 406.4	14993.5 458.1	1707
	144.2 0.7	1029.0 8.6	2219.4 29.5	3565.4 62.7	4871.1 105.1	6087.1 152.7	7233.8 201.7	8192.1 243.9	8780.3 269.4	1074
60	106.9 0.4	542.1 4.8	1403.2 18.3	2207.6 39.1	3044.4 65.7	3797.7 94.9	4395.1 121.7	4831.9 142.6	5072.1 154.6	642
	66.6 0.2	187.4 1.8	549.8 7.5	1003.1 17.5	1315.8 29.5	1753.1 44.1	2069.4 57.4	2263.4 66.7	2326.2 71.1	296
	24.5 0.1	65.9 0.5	86.1 1.2	103.3 2.6	96.1 4.4	187.6 7.1	273.2 10.0	208.8 10.3	147.8 9.8	46
90	18	203	689	1546	2946	5265	10365	21502	38061	80594

Lumen Totals

Legend:

candelas
lumens

Standard table of intensity and illuminance in accordance with IES procedures.
Angular data is shown with the polar axis horizontal.
Luminous flux expressed as lumens within marked zones.
Luminous intensity expressed as candelas at centre of zones.



Test Report No. LLIA002378-008

Catalog Number: SP-1200PS-50K - 1000W Setting
Pole mounted, cast aluminum housing, clear enclosure.
1232 white LEDs with plastic optics in front of each.
Two uPowerTek BLD-600-C420-ENU LED drivers
120.0Vac, 60.00Hz, 8.778A, 1043.6W, 0.991PF, 11.6%THD(i)

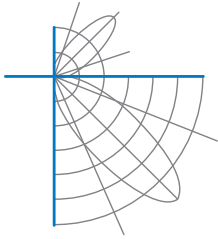
Vertical Angle (degrees)	Right Side Horizontal Angle (degrees)									Lumen Totals
	0	30	60	90	120	150	180	210	240	
-90	315.8 13.8	320.8 13.2	329.7 11.7	234.1 8.2	144.3 5.3	132.6 3.1	102.6 1.4	68.6 0.6	24.4 0.1	57
	2499.3 76.4	2409.1 71.1	2194.3 60.7	1847.3 46.4	1403.1 31.2	1058.0 18.5	585.6 7.9	202.4 1.9	67.5 0.2	315
	5277.1 160.9	4998.1 147.7	4526.2 125.4	3895.2 97.4	3118.3 67.4	2268.0 40.1	1436.4 18.8	560.0 5.0	108.8 0.4	663
-60	9140.1 280.2	8498.1 252.8	7452.0 207.7	6231.8 156.4	4958.5 107.1	3626.2 63.7	2248.7 29.9	1044.4 8.8	146.9 0.7	1107
	15531.9 474.7	14173.8 419.5	11930.9 331.2	9334.8 235.0	6929.4 151.7	4968.8 87.8	3137.3 41.1	1471.3 12.3	180.5 1.1	1754
	27707.6 868.8	23445.7 707.5	18166.4 507.9	13464.0 337.9	9424.4 204.7	6355.6 111.7	3908.2 51.2	1827.2 15.4	208.5 1.4	2807
-30	66538.2 2084.7	47204.4 1441.0	28486.9 812.5	18194.8 460.4	11921.8 260.8	7575.9 135.0	4519.5 59.9	2101.0 17.9	229.9 1.6	5274
	166513.6 5145.6	100957.3 3017.0	46786.2 1335.8	23456.0 599.6	14190.9 311.3	8503.9 153.5	4954.4 66.2	2286.3 19.7	244.0 1.8	10650
	365136.3 10353.4	162564.7 4863.2	65065.8 1850.6	27612.2 710.4	15550.3 342.7	9019.9 163.8	5185.5 69.6	2380.7 20.5	250.3 1.9	18376
0	352468.8 10041.2	159665.4 4772.5	64233.6 1827.6	27452.4 706.2	15506.2 341.7	9003.9 163.5	5180.3 69.6	2378.8 20.5	249.7 1.8	17945
	156761.0 4833.0	96390.6 2884.1	45388.7 1296.4	23170.1 591.8	14085.1 308.9	8458.7 152.6	4936.8 66.0	2281.0 19.6	242.3 1.8	10154
	61872.0 1942.4	44612.3 1362.3	27646.9 787.4	17944.2 453.7	11782.0 257.7	7509.3 133.8	4493.3 59.5	2092.4 17.9	227.3 1.6	5016
30	26268.7 822.4	22595.7 679.8	17796.7 496.6	13242.2 332.3	9283.2 201.7	6280.7 110.4	3877.5 50.8	1816.2 15.3	205.4 1.4	2711
	14993.5 458.1	13730.1 406.4	11612.1 322.5	9136.4 230.0	6819.1 149.2	4897.2 86.6	3106.7 40.6	1458.2 12.2	177.3 1.0	1707
	8780.3 269.4	8192.1 243.9	7233.8 201.7	6087.1 152.7	4871.1 105.1	3565.4 62.7	2219.4 29.5	1029.0 8.6	144.2 0.7	1074
60	5072.1 154.6	4831.9 142.6	4395.1 121.7	3797.7 94.9	3044.4 65.7	2207.6 39.1	1403.2 18.3	542.1 4.8	106.9 0.4	642
	2326.2 71.1	2263.4 66.7	2069.4 57.4	1753.1 44.1	1315.8 29.5	1003.1 17.5	549.8 7.5	187.4 1.8	66.6 0.2	296
	147.8 9.8	208.8 10.3	273.2 10.0	187.6 7.1	96.1 4.4	103.3 2.6	86.1 1.2	65.9 0.5	24.5 0.1	46
90	38061	21502	10365	5265	2946	1546	689	203	18	80594

Lumen Totals

Legend:

candelas
lumens

Standard table of intensity and illuminance in accordance with IES procedures.
Angular data is shown with the polar axis horizontal.
Luminous flux expressed as lumens within marked zones.
Luminous intensity expressed as candelas at centre of zones.



Test Report No. LLIA002378-008

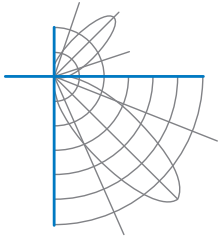
Catalog Number: SP-1200PS-50K - 1000W Setting
Pole mounted, cast aluminum housing, clear enclosure.
1232 white LEDs with plastic optics in front of each.
Two uPowerTek BLD-600-C420-ENU LED drivers
120.0Vac, 60.00Hz, 8.778A, 1043.6W, 0.991PF, 11.6%THD(i)

Candela trace through origin.

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	1.53	0.0	448700.00
87.0	1.53	-3.0	438000.00
84.0	259.39	-6.0	394800.00
81.0	904.86	-9.0	320600.00
78.0	1574.86	-12.0	238100.00
75.0	2311.92	-15.0	177900.00
72.0	3156.92	-18.0	135800.00
69.0	3951.22	-21.0	102900.00
66.0	4801.13	-24.0	76386.80
63.0	5697.92	-27.0	56581.08
60.0	6707.01	-30.0	42473.95
57.0	7893.28	-33.0	32755.90
54.0	9336.87	-36.0	26081.50
51.0	11018.14	-39.0	21531.03
48.0	12939.29	-42.0	18239.90
45.0	15119.39	-45.0	15644.93
42.0	17627.68	-48.0	13427.21
39.0	20693.67	-51.0	11461.91
36.0	24787.28	-54.0	9716.30
33.0	30770.43	-57.0	8214.38
30.0	39596.05	-60.0	6979.59
27.0	52547.44	-63.0	5925.79
24.0	70851.23	-66.0	5005.56
21.0	95686.06	-69.0	4142.57
18.0	127300.00	-72.0	3341.18
15.0	166700.00	-75.0	2504.36
12.0	221400.00	-78.0	1756.40
9.0	300700.00	-81.0	1062.95
6.0	379400.00	-84.0	472.55
3.0	430900.00	-87.0	47.32
0.0	448700.00	-90.0	6.18

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	3.63	0.0	448700.00
87.0	151.31	-3.0	432400.00
84.0	464.49	-6.0	381450.00
81.0	1106.40	-9.0	306750.00
78.0	1748.31	-12.0	230450.00
75.0	2390.21	-15.0	171800.00
72.0	3236.49	-18.0	132050.00
69.0	4082.77	-21.0	100445.73
66.0	4929.05	-24.0	74859.34
63.0	5982.65	-27.0	55720.54
60.0	7139.91	-30.0	41879.38
57.0	8297.17	-33.0	31982.61
54.0	9686.61	-36.0	26251.55
51.0	11540.41	-39.0	21685.13
48.0	13394.21	-42.0	18283.33
45.0	15709.78	-45.0	15709.78
42.0	18283.33	-48.0	13394.21
39.0	21685.13	-51.0	11540.41
36.0	26251.55	-54.0	9686.61
33.0	31982.61	-57.0	8297.17
30.0	41879.38	-60.0	7139.91
27.0	55720.54	-63.0	5982.65
24.0	74859.34	-66.0	4929.05
21.0	100445.73	-69.0	4082.77
18.0	132050.00	-72.0	3236.49
15.0	171800.00	-75.0	2390.21
12.0	230450.00	-78.0	1748.31
9.0	306750.00	-81.0	1106.40
6.0	381450.00	-84.0	464.49
3.0	432400.00	-87.0	151.31
0.0	448700.00	-90.0	3.63

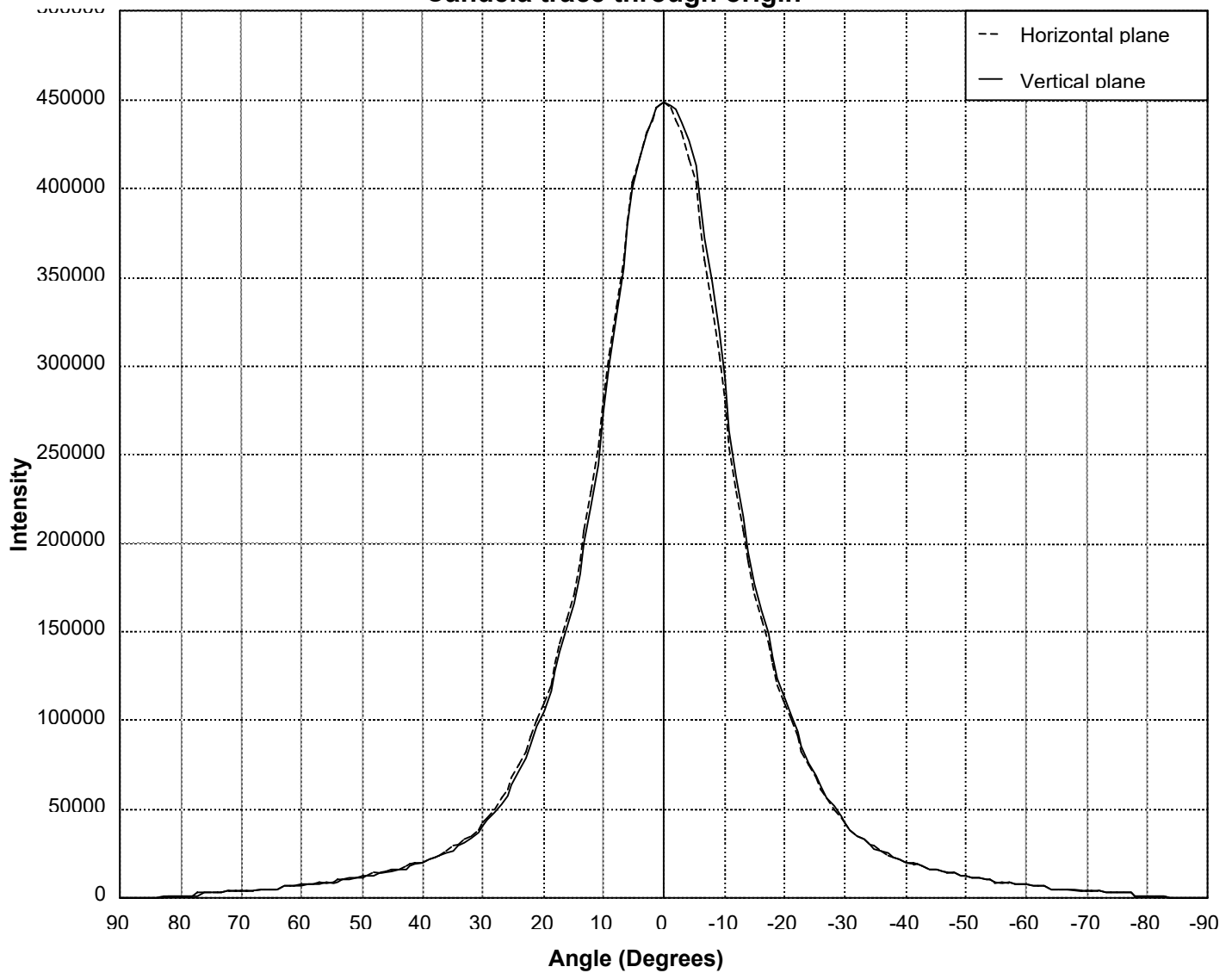
Note: Luminaire orientation as tested.
The left and right sides of photometric data have been averaged.



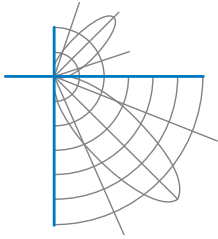
Test Report No. LLIA002378-008

Catalog Number: SP-1200PS-50K - 1000W Setting
Pole mounted, cast aluminum housing, clear enclosure.
1232 white LEDs with plastic optics in front of each.
Two uPowerTek BLD-600-C420-ENU LED drivers
120.0Vac, 60.00Hz, 8.778A, 1043.6W, 0.991PF, 11.6%THD(i)

Candela trace through origin



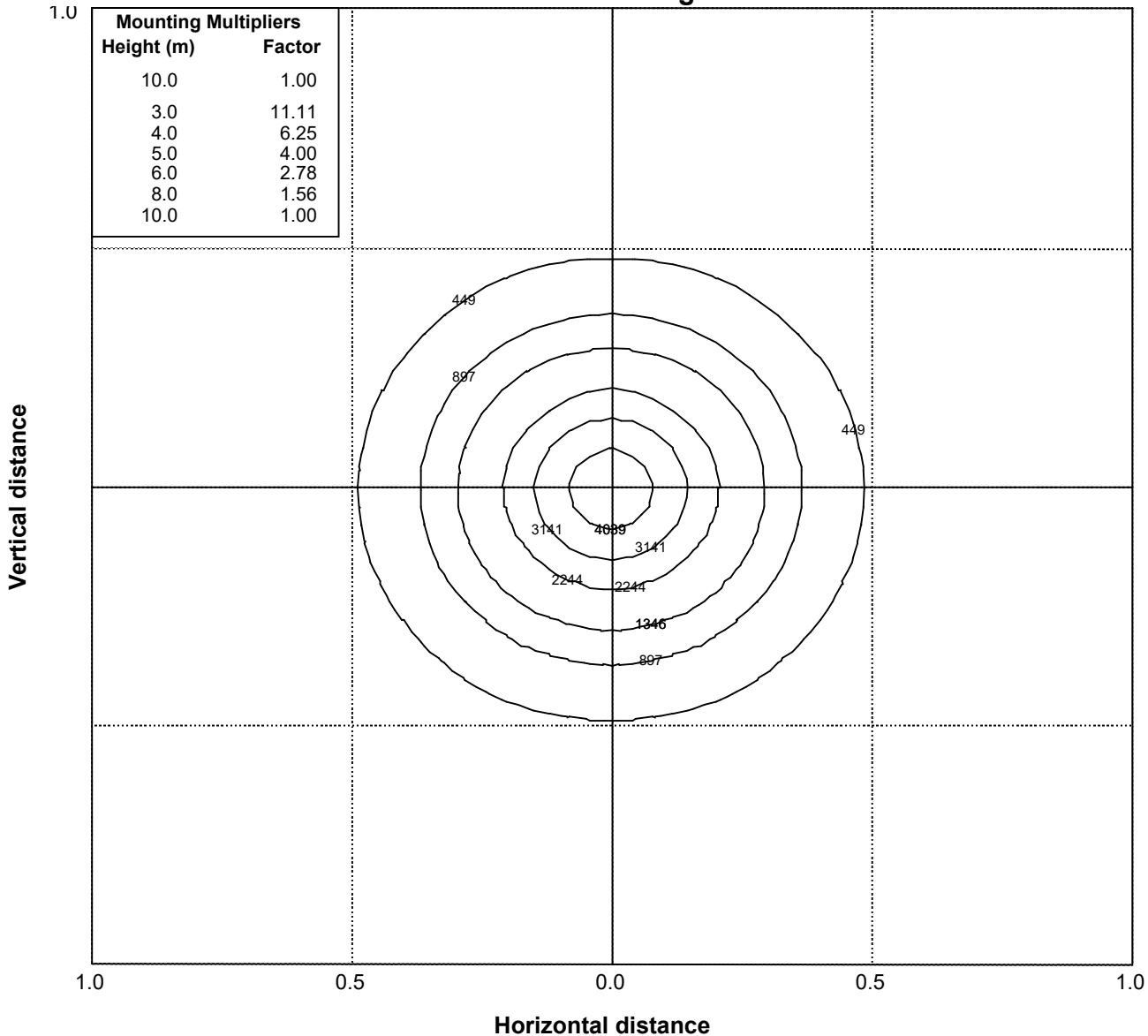
Note: The intensity units are expressed as candelas.
The left and right sides of photometric data have been averaged.
Both the vertical and the horizontal trace pass through the nadir.



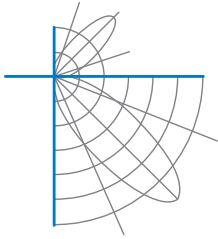
Test Report No. LLIA002378-008

Catalog Number: SP-1200PS-50K - 1000W Setting
Pole mounted, cast aluminum housing, clear enclosure.
1232 white LEDs with plastic optics in front of each.
Two uPowerTek BLD-600-C420-ENU LED drivers
120.0Vac, 60.00Hz, 8.778A, 1043.6W, 0.991PF, 11.6%THD(i)

Isolux Diagram

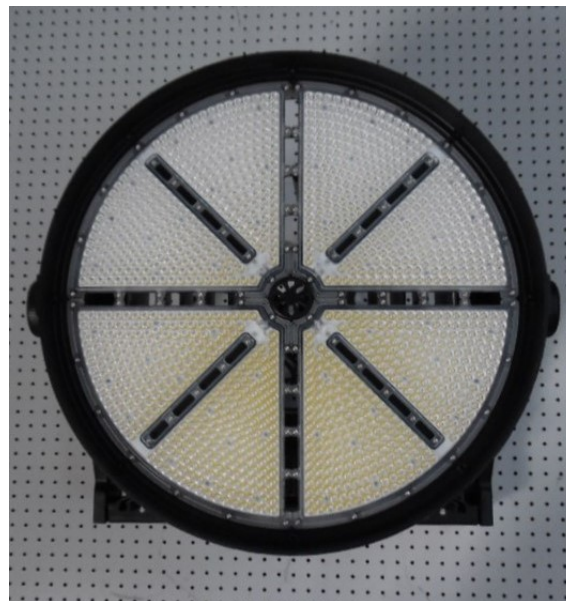


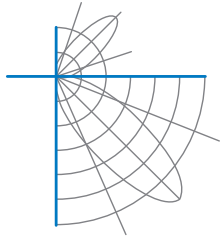
Note: The isolux levels are based on a mounting height of H = 10.0 metres. Grid values show multiples of mounting height.
The isolux contours are set to 10%, 20%, 30%, 50%, 70%, 90% of the maximum.
The isolux contour units are expressed as lux. The left and right sides of photometric data have been averaged.



Test Report No. LLIA002378-008

Catalog Number: SP-1200PS-50K - 1000W Setting
Pole mounted, cast aluminum housing, clear enclosure.
1232 white LEDs with plastic optics in front of each.
Two uPowerTek BLD-600-C420-ENU LED drivers
120.0Vac, 60.00Hz, 8.778A, 1043.6W, 0.991PF, 11.6%THD(i)





Test Report No. LLIA002378-008

Catalog Number: SP-1200PS-50K - 1000W Setting
Pole mounted, cast aluminum housing, clear enclosure.
1232 white LEDs with plastic optics in front of each.
Two uPowerTek BLD-600-C420-ENU LED drivers
120.0Vac, 60.00Hz, 8.778A, 1043.6W, 0.991PF, 11.6%THD(i)

Test Distance 9.5 m
Test Temperature 25.6°C

Notes The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-19, IES LM-75-19, and IES LM-35-20.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE (B, β) coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with * are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.