

Report of Test

LLIA001077-006

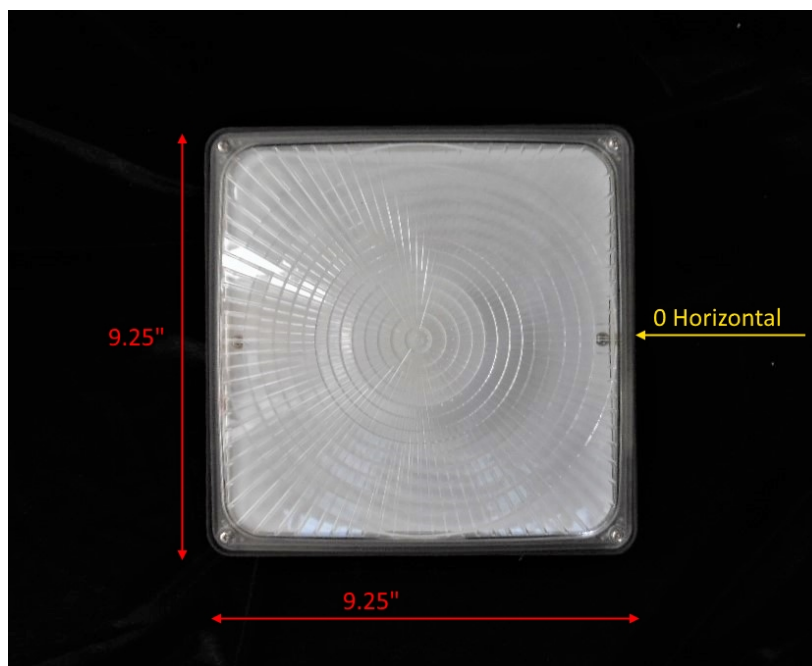
Catalog Number: F-CPS/40W/50K/BZ-80

Surface mounted, cast aluminum housing, formed white enamel steel reflector, clear prismatic plastic lens.

42 white LEDs, one CP-3030-5297-6C7B LED board

One MSPI-DIM45W12S-980 LED driver and surge protector.

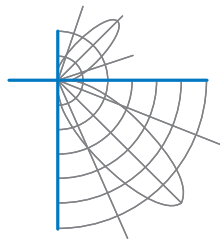
120.0Vac, 60.00Hz, 0.3498A, 41.71W, 0.992PF, 10.3%THD(i)



Performance Summary

Total Light Output	5347 lm
Luminaire Power	41.7 W
Luminous Efficacy	128.2 lm/W

PREPARED FOR : Topaz Lighting Corp, 925 Waverly Avenue, Holtsville, NY 11742, USA



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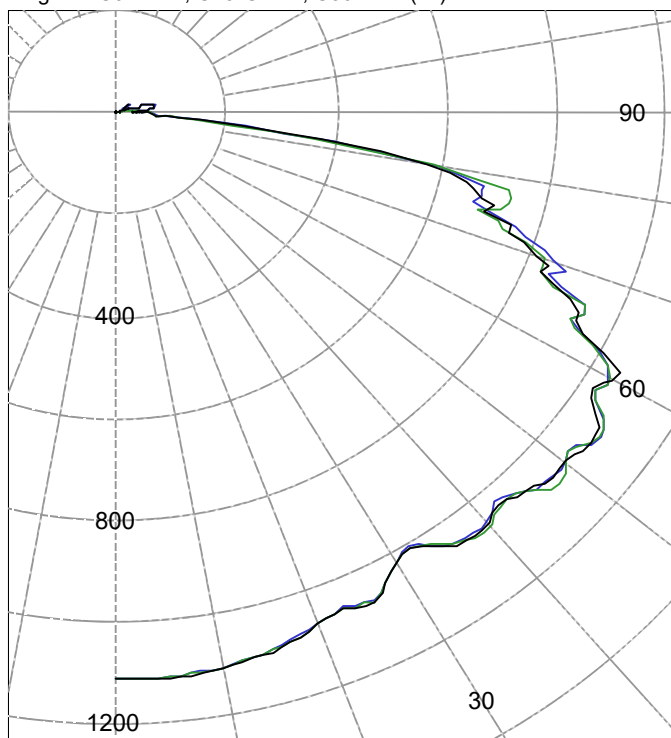
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Legend: C0-Black, C45-Green, C90-Blue (cd)



(Two plane symmetry) C0-C90

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	24312	23356	24397
55.0	29343	28100	29734
65.0	32454	30405	32740
75.0	35569	32470	33562
85.0	14441	10931	14154

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	1111	1111	1111	1111	1111	
5.0	1114	1114	1113	1113	1112	106
10.0	1108	1108	1107	1106	1106	
15.0	1096	1094	1093	1092	1093	309
20.0	1070	1070	1070	1069	1069	
25.0	1067	1066	1065	1063	1064	488
30.0	1021	1020	1020	1018	1016	
35.0	1041	1038	1033	1036	1036	650
40.0	1051	1052	1059	1054	1050	
45.0	1050	1053	1049	1050	1054	819
50.0	1064	1068	1066	1072	1065	
55.0	1071	1077	1081	1077	1085	948
60.0	1044	1022	1036	1039	1032	
65.0	930	950	939	927	938	916
70.0	813	847	828	821	845	
75.0	710	747	725	719	670	755
80.0	571	501	584	522	597	
85.0	154	149	143	148	151	233
90.0	44	45	45	45	44	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	903	N / A	16.9
0-40	1553	N / A	29.1
0-60	3320	N / A	62.1
0-90	5225	N / A	97.7
40-90	3671	N / A	68.7
60-90	1905	N / A	35.6
90-180	123	N / A	2.3
0-180	5347	N / A	100.0

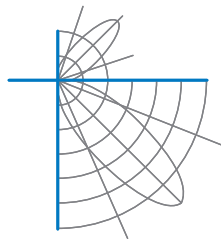
Total Light Output = 5,347 lm

Spacing Criterion: 0-180 1.5
Spacing Criterion: 90-270 1.5

Signed:

Authorized Signatory

Date of test 8-Feb-2019
Date of report 11-Feb-2019



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Surface mounted, cast aluminum housing, formed white
enamel steel reflector, clear prismatic plastic lens.

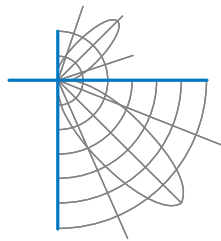
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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	1111	1111	1111	1111	1111
2.5	1114	1114	1113	1112	1112
5.0	1114	1114	1113	1113	1112
7.5	1112	1111	1111	1111	1110
10.0	1108	1108	1107	1106	1106
12.5	1102	1101	1100	1100	1100
15.0	1096	1094	1093	1092	1093
17.5	1084	1084	1083	1082	1081
20.0	1070	1070	1070	1069	1069
22.5	1056	1057	1057	1056	1056
25.0	1067	1066	1065	1063	1064
27.5	1053	1054	1052	1050	1052
30.0	1021	1020	1020	1018	1016
32.5	1011	1010	1008	1009	1007
35.0	1041	1038	1033	1036	1036
37.5	1055	1061	1054	1053	1048
40.0	1051	1052	1059	1054	1050
42.5	1037	1039	1038	1034	1029
45.0	1050	1053	1049	1050	1054
47.5	1071	1082	1084	1072	1064
50.0	1064	1068	1066	1072	1065
52.5	1075	1071	1072	1077	1072
55.0	1071	1077	1081	1077	1085
57.5	1022	1031	1028	1019	1024
60.0	1044	1022	1036	1039	1032
62.5	971	967	952	986	968
65.0	930	950	939	927	938
67.5	848	873	843	845	857
70.0	813	847	828	821	845
72.5	752	760	740	746	776
75.0	710	747	725	719	670
77.5	678	717	731	683	678
80.0	571	501	584	522	597
82.5	343	332	320	324	344
85.0	154	149	143	148	151
87.5	82	85	85	84	83
90.0	44	45	45	45	44



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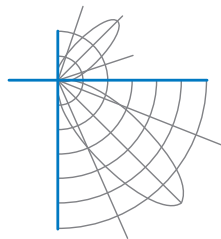
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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	44	45	45	45	44
92.5	33	30	30	31	36
95.0	33	31	28	30	33
97.5	51	46	37	45	51
100.0	64	55	42	56	66
102.5	68	56	38	56	69
105.0	60	48	28	48	61
107.5	48	39	20	39	49
110.0	36	29	14	29	36
112.5	27	22	10	21	27
115.0	22	18	9	18	22
117.5	17	15	7	15	17
120.0	15	16	6	16	15
122.5	14	17	6	18	15
125.0	19	12	5	13	20
127.5	22	9	5	10	23
130.0	13	7	4	7	14
132.5	8	6	3	6	8
135.0	7	5	2	5	7
137.5	6	4	2	4	6
140.0	4	3	2	3	4
142.5	3	2	2	2	3
145.0	1	1	1	1	1
147.5	1	1	1	1	1
150.0	1	1	1	1	1
152.5	0	0	1	1	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0



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Coefficients Of Utilization - Zonal Cavity Method

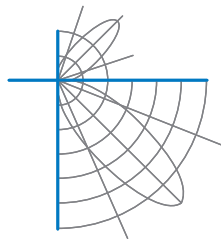
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	105	99	94	89	102	97	92	87	92	88	84	87	84	81	83	81	78	76
2	94	84	75	68	90	81	74	67	77	71	65	73	68	63	70	65	61	59
3	84	71	62	54	81	70	61	53	66	58	52	63	56	51	60	54	50	47
4	76	62	52	44	73	60	51	44	57	49	43	55	48	42	52	46	41	38
5	69	55	44	37	67	53	44	36	51	42	36	48	41	35	46	40	34	32
6	63	48	38	31	61	47	38	31	45	37	30	43	36	30	41	35	29	27
7	58	43	34	27	56	43	33	27	41	32	26	39	32	26	37	31	26	23
8	54	39	30	24	52	39	30	24	37	29	23	35	28	23	34	27	23	20
9	50	36	27	21	49	35	27	21	34	26	21	33	25	20	31	25	20	18
10	47	33	24	19	46	32	24	19	31	24	18	30	23	18	29	23	18	16

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	30.9	8.72	8.67
8.0	17.4	11.63	11.55
10.0	11.1	14.54	14.44
12.0	7.7	17.44	17.33
14.0	5.7	20.35	20.22
16.0	4.3	23.26	23.11



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Test Distance 9.5 m
Test Temperature 24.9 °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-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2015, ANSI C82.77-10:2014.

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 Gamma coordinate system as defined in CIE publication number 121.

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