

Report of Test

LLIA002379-007

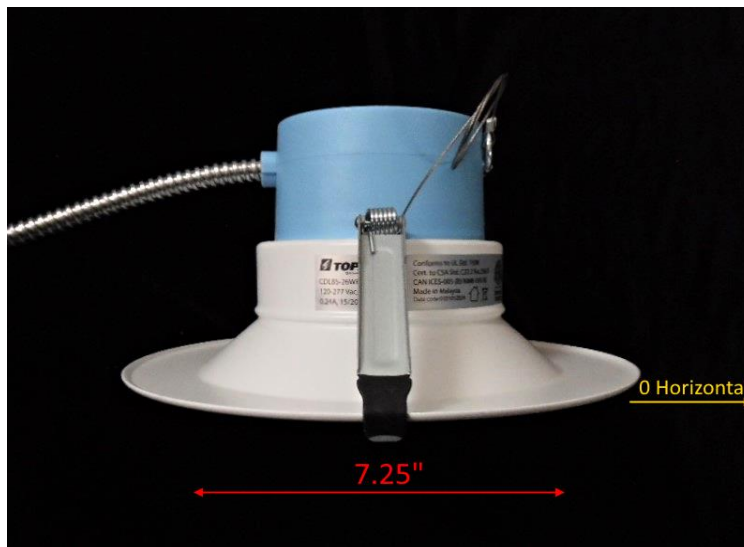
Indoor Distribution Photometry Test Report

Catalog Number: CDL8S-26WPCS-U - 15W Setting - 4000K Setting

Recessed mounted, formed white painted aluminum housing,
white interior reflector, diffuse white plastic enclosure.

white LEDs

One unmarked PCB type LED driver mounted on top of fixture housing



Prepared For:

Topaz Lighting, A Southwire Company
925 Waverly Avenue
Holtsville, NY 11742, USA

Performance Summary			
Input Voltage	120.0 Vac	Luminous Flux	1773.1 Lumens
Input Current	0.1294 A	Total Efficacy	117.8 Lm/W
Input Power	15.05 W	Downward Flux	1773.1 Lumens
Frequency	60.00 Hz	Downward Flux	100.0 % of Total
Power Factor	0.969		
Current THD	10.7 %		

This test report was issued by LightLab International Allentown, LLC without alterations or erasures.

Test date: 05/02/2024

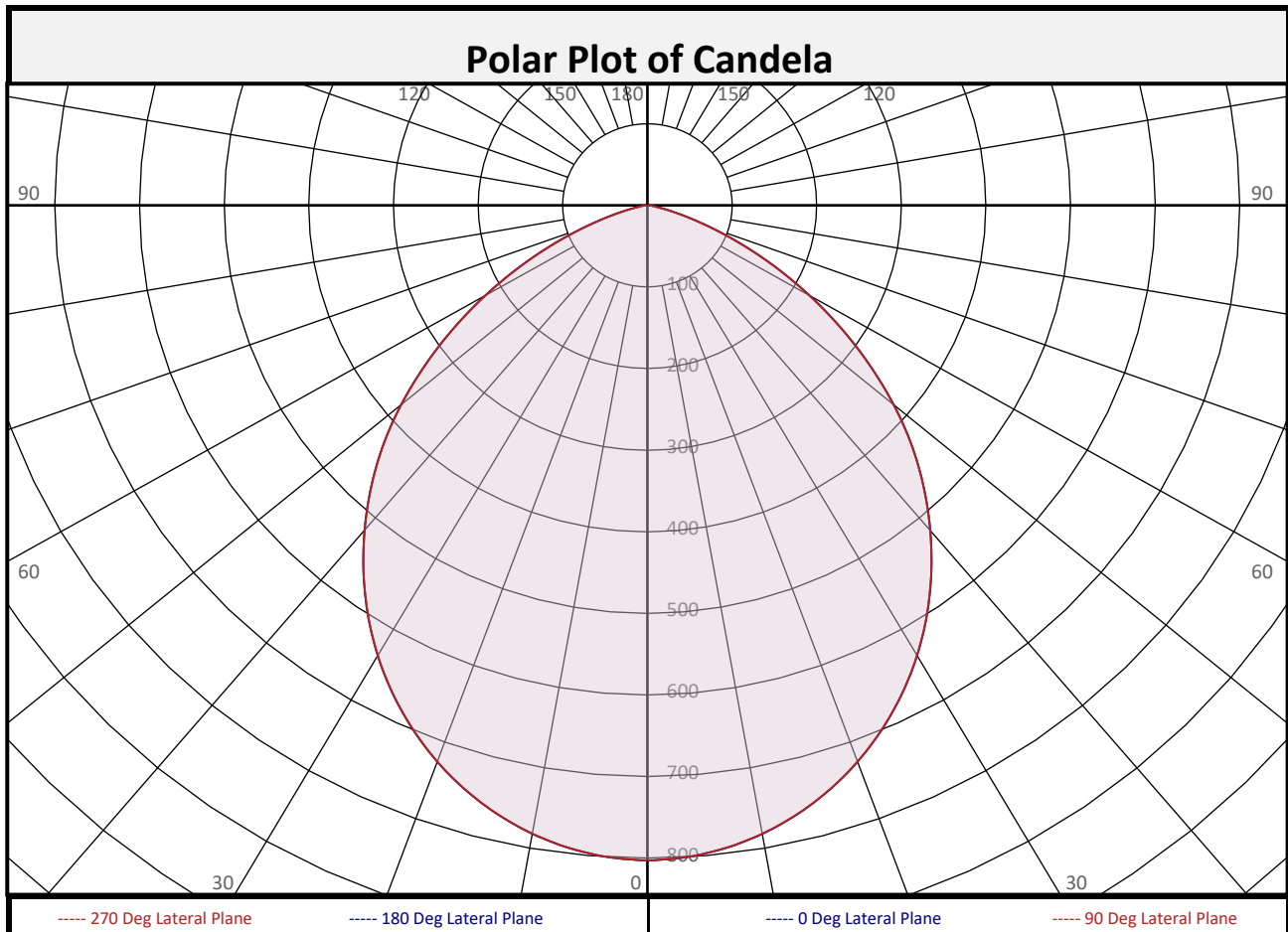
Report date: 05/16/2024

Signed: _____



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Zonal Flux Summary

Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	75.7	4.3%	90-100	0.0	0.0%	0-20	289.3	16.3%
10-20	213.6	12.0%	100-110	0.0	0.0%	0-30	604.6	34.1%
20-30	315.3	17.8%	110-120	0.0	0.0%	0-40	967.7	54.6%
30-40	363.2	20.5%	120-130	0.0	0.0%	0-60	1584	89.3%
40-50	348.4	19.7%	130-140	0.0	0.0%	0-80	1769	99.7%
50-60	267.9	15.1%	140-150	0.0	0.0%	10-90	1697	95.7%
60-70	145.5	8.2%	150-160	0.0	0.0%	20-50	1027	57.9%
70-80	38.9	2.2%	160-170	0.0	0.0%	40-90	805.3	45.4%
80-90	4.5	0.3%	170-180	0.0	0.0%	60-90	188.9	10.7%
0-90	1773	100.0%	90-180	0.0	0.0%	0-180	1773	100.0%



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Luminous Intensity (Candela) Table

Lateral (C-Plane) Angles										
	0	22.5	45	67.5	90	112.5	135	157.5	180	
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	0	803	803	803	803	803	803	803	803	803
	2.5	801	801	801	801	801	801	801	801	801
	5	797	797	797	797	797	797	797	797	797
	7.5	791	791	791	791	791	791	791	791	791
	10	782	782	782	782	782	782	782	782	782
	12.5	771	771	771	771	771	771	771	771	771
	15	758	758	758	758	758	758	758	758	758
	17.5	743	743	743	743	743	743	743	743	743
	20	726	726	726	726	726	726	726	726	726
	22.5	706	706	706	706	706	706	706	706	706
	25	685	685	685	685	685	685	685	685	685
	27.5	662	662	662	662	662	662	662	662	662
	30	637	637	637	637	637	637	637	637	637
	32.5	610	610	610	610	610	610	610	610	610
	35	582	582	582	582	582	582	582	582	582
	37.5	551	551	551	551	551	551	551	551	551
	40	520	520	520	520	520	520	520	520	520
	42.5	487	487	487	487	487	487	487	487	487
	45	453	453	453	453	453	453	453	453	453
	47.5	418	418	418	418	418	418	418	418	418
50	380	380	380	380	380	380	380	380	380	
52.5	340	340	340	340	340	340	340	340	340	
55	300	300	300	300	300	300	300	300	300	
57.5	261	261	261	261	261	261	261	261	261	
60	221	221	221	221	221	221	221	221	221	
62.5	183	183	183	183	183	183	183	183	183	
65	146	146	146	146	146	146	146	146	146	
67.5	111	111	111	111	111	111	111	111	111	
70	80	80	80	80	80	80	80	80	80	
72.5	54	54	54	54	54	54	54	54	54	
75	33	33	33	33	33	33	33	33	33	
77.5	19	19	19	19	19	19	19	19	19	
80	10	10	10	10	10	10	10	10	10	
82.5	6	6	6	6	6	6	6	6	6	
85	4	4	4	4	4	4	4	4	4	
87.5	2	2	2	2	2	2	2	2	2	
90	0	0	0	0	0	0	0	0	0	

16 lateral half-planes of data were acquired, 22.5 degree increments shown.



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Luminous Intensity (Candela) Table

		Lateral (C-Plane) Angles									
		0	22.5	45	67.5	90	112.5	135	157.5	180	
Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	90	0	0	0	0	0	0	0	0	0	
	92.5	0	0	0	0	0	0	0	0	0	
	95	0	0	0	0	0	0	0	0	0	
	97.5	0	0	0	0	0	0	0	0	0	
	100	0	0	0	0	0	0	0	0	0	
	102.5	0	0	0	0	0	0	0	0	0	
	105	0	0	0	0	0	0	0	0	0	
	107.5	0	0	0	0	0	0	0	0	0	
	110	0	0	0	0	0	0	0	0	0	
	112.5	0	0	0	0	0	0	0	0	0	
	115	0	0	0	0	0	0	0	0	0	
	117.5	0	0	0	0	0	0	0	0	0	
	120	0	0	0	0	0	0	0	0	0	
	122.5	0	0	0	0	0	0	0	0	0	
	125	0	0	0	0	0	0	0	0	0	
	127.5	0	0	0	0	0	0	0	0	0	
	130	0	0	0	0	0	0	0	0	0	
	132.5	0	0	0	0	0	0	0	0	0	
	135	0	0	0	0	0	0	0	0	0	
	137.5	0	0	0	0	0	0	0	0	0	
140	0	0	0	0	0	0	0	0	0		
142.5	0	0	0	0	0	0	0	0	0		
145	0	0	0	0	0	0	0	0	0		
147.5	0	0	0	0	0	0	0	0	0		
150	0	0	0	0	0	0	0	0	0		
152.5	0	0	0	0	0	0	0	0	0		
155	0	0	0	0	0	0	0	0	0		
157.5	0	0	0	0	0	0	0	0	0		
160	0	0	0	0	0	0	0	0	0		
162.5	0	0	0	0	0	0	0	0	0		
165	0	0	0	0	0	0	0	0	0		
167.5	0	0	0	0	0	0	0	0	0		
170	0	0	0	0	0	0	0	0	0		
172.5	0	0	0	0	0	0	0	0	0		
175	0	0	0	0	0	0	0	0	0		
177.5	0	0	0	0	0	0	0	0	0		
180	0	0	0	0	0	0	0	0	0		

16 lateral half-planes of data were acquired, 22.5 degree increments shown.



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Coefficients of Utilization/Room 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76			
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66			
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57			
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44			
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36			
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32			
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31	29			

For absolute test reports, RUs are expressed as a percentage of total lumen output. For relative test reports, CUs are expressed as a percentage of total lamp 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)	Ground-level distance to half-of-nadir illuminance (ft)	
		0-180 deg	90-270 deg
6.0	22.3	7.11	7.11
8.0	12.5	9.48	9.48
10.0	8.0	11.85	11.85
12.0	5.6	14.22	14.22
14.0	4.1	16.59	16.59
16.0	3.1	18.96	18.96

Spacing Criterion	
SC:	1.2

Average Luminance (cd/m ²)			
	0 deg Plane	45 deg Plane	90 deg Plane
0	30140	30140	30140
45	24057	24057	24057
55	19655	19655	19655
65	12973	12973	12973
75	4814	4814	4814
85	1653	1653	1653

Beam and Field Angle	
0-180 Degree Plane	
Beam Angle:	97.2°
Field Angle:	140.0°
90-270 Degree Plane	
Beam Angle:	97.2°
Field Angle:	140.0°



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UGR Table - Corrected

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size

UGR Viewed Crosswise

UGR Viewed Endwise

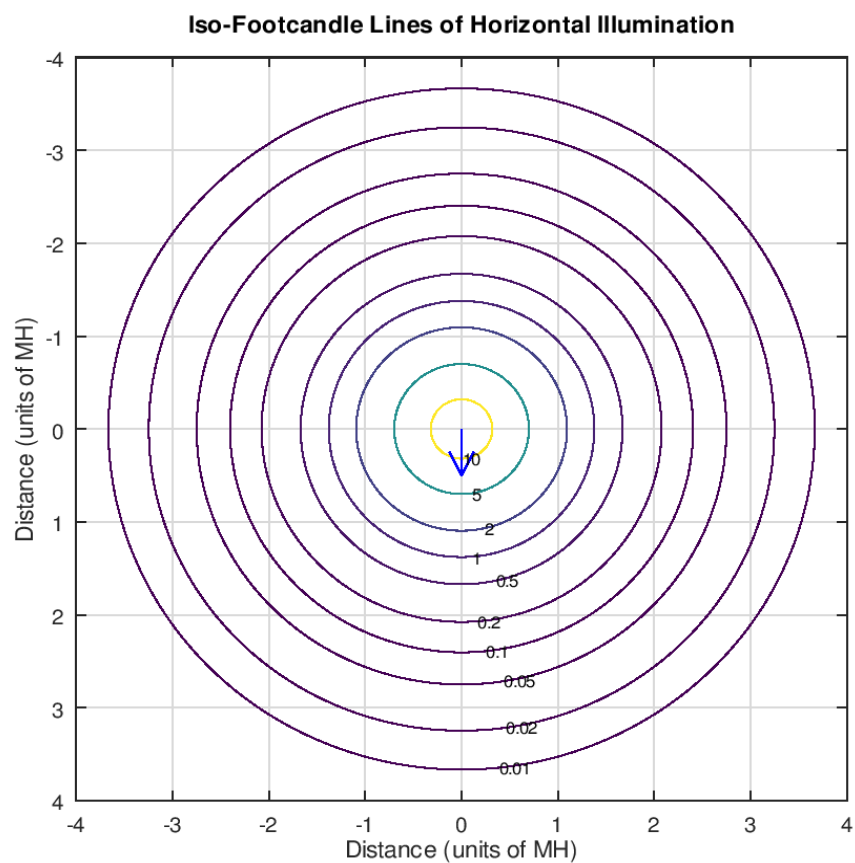
X=2H	Y=2H	21.1	22.6	21.5	23.0	23.3	21.1	22.6	21.5	23.0	23.3
	3H	21.9	23.2	22.2	23.5	23.9	21.9	23.2	22.2	23.5	23.9
	4H	22.0	23.2	22.4	23.5	23.9	22.0	23.2	22.4	23.5	23.9
	6H	21.9	23.1	22.3	23.4	23.8	21.9	23.1	22.3	23.4	23.8
	8H	21.9	23.0	22.3	23.4	23.8	21.9	23.0	22.3	23.4	23.8
	12H	21.9	22.9	22.3	23.3	23.7	21.9	22.9	22.3	23.3	23.7
4H	2H	21.5	22.7	21.9	23.1	23.4	21.5	22.7	21.9	23.1	23.4
	3H	22.3	23.3	22.7	23.7	24.1	22.3	23.3	22.7	23.7	24.1
	4H	22.4	23.3	22.8	23.7	24.2	22.4	23.3	22.8	23.7	24.2
	6H	22.4	23.2	22.8	23.6	24.1	22.4	23.2	22.8	23.6	24.1
	8H	22.3	23.1	22.8	23.5	24.0	22.3	23.1	22.8	23.5	24.0
	12H	22.3	23.0	22.8	23.5	23.9	22.3	23.0	22.8	23.5	23.9
8H	4H	22.4	23.1	22.8	23.5	24.0	22.4	23.1	22.8	23.5	24.0
	6H	22.3	23.0	22.8	23.4	23.9	22.3	23.0	22.8	23.4	23.9
	8H	22.3	22.9	22.8	23.4	23.9	22.3	22.9	22.8	23.4	23.9
	12H	22.3	22.8	22.8	23.3	23.8	22.3	22.8	22.8	23.3	23.8
12H	4H	22.3	23.0	22.8	23.5	23.9	22.3	23.0	22.8	23.5	23.9
	6H	22.3	22.9	22.8	23.3	23.9	22.3	22.9	22.8	23.3	23.9
	8H	22.3	22.8	22.8	23.3	23.8	22.3	22.8	22.8	23.3	23.8

Maximum UGR = 24.2



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Iso-Illuminance Plot

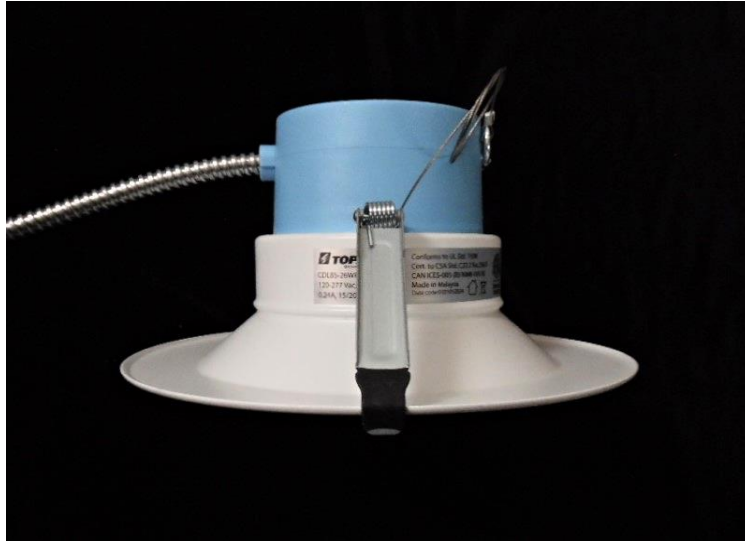


The isofootcandle values shown in the plot above are based on a mounting height of $h = 8.0$ feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the contribution of room reflections.



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Additional Pictures of Test Subject





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Test Distance 9.5 m
Ambient Temperature 25.0 °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 IES LM-79-19. Format of reports and angular increments based on IES LM-41-20 and LM-46-20.

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 C-Gamma 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.