

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P572129

Luminaire Tested: 24ID-25-L840-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-25-L840-DBD
Description: 2500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

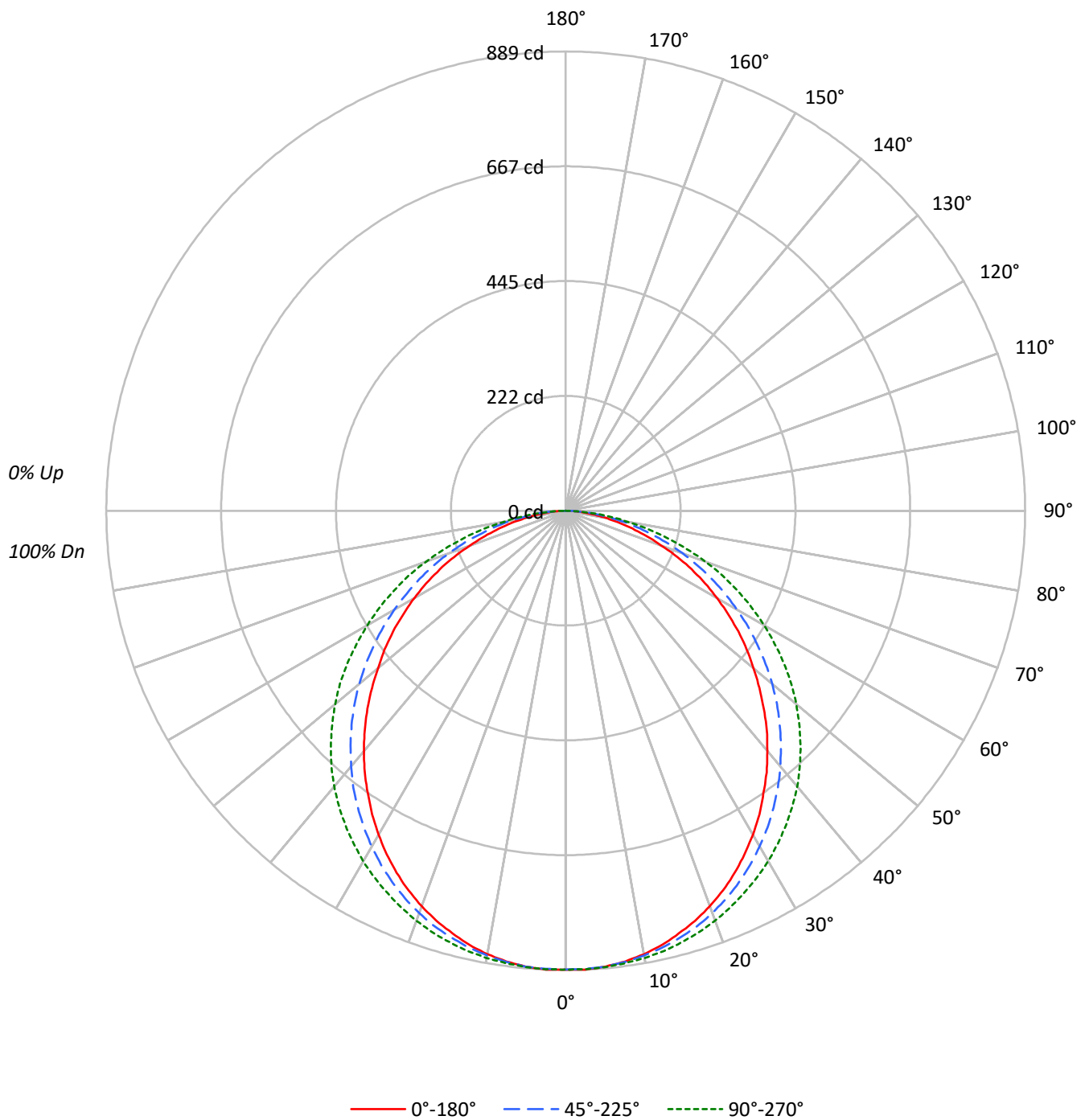
Lumens per Lamp: N/A
Luminaire Lumens: 2534.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 21.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20					20				20
RC	80				70				50					30				10
RW	70	50	30	10	70	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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	59	52	46	58	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1195	1195	1195
5°	1192	1187	1189
10°	1182	1176	1184
15°	1167	1164	1179
20°	1149	1150	1174
25°	1127	1131	1167
30°	1099	1110	1162
35°	1065	1085	1153
40°	1030	1056	1144
45°	990	1024	1129
50°	945	988	1109
55°	903	942	1081
60°	848	892	1042
65°	785	833	990
70°	695	759	915
75°	601	654	804
80°	475	532	629
85°	327	329	378

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1129 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.3
10°-20°	241.6	9.5
20°-30°	366.2	14.5
30°-40°	440.5	17.4
40°-50°	454.8	17.9
50°-60°	408.7	16.1
60°-70°	311.2	12.3
70°-80°	178.7	7.1
80°-90°	48.2	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	692.0	27.3
0°-40°	1132.6	44.7
0°-60°	1996.0	78.8
0°-90°	2534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	886	887	886	885	887	84
15°	847	851	855	861	865	239
25°	774	781	794	810	816	356
35°	667	679	701	732	743	418
45°	542	554	586	626	643	418
55°	408	419	452	496	516	364
65°	269	281	311	348	367	266
75°	134	146	167	191	203	142
85°	31	36	43	45	48	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.2	888.2	888.2	888.2	888.2
2.5°	889.0	889.0	887.4	886.6	888.2
5°	885.7	886.6	885.7	884.9	886.6
7.5°	880.0	880.8	880.8	881.6	883.3
10°	871.7	873.4	874.2	876.7	879.1
12.5°	861.0	862.7	866.0	870.1	873.4
15°	847.0	851.1	855.2	861.0	865.1
17.5°	832.2	837.1	843.7	851.1	856.1
20°	814.9	820.6	828.9	838.8	844.5
22.5°	795.1	802.5	812.4	824.8	831.4
25°	773.7	781.1	793.5	809.9	816.5
27.5°	749.8	758.0	772.9	791.8	800.9
30°	724.2	733.3	750.6	773.7	783.6
32.5°	697.1	706.9	726.7	753.1	763.8
35°	667.4	678.9	701.2	731.7	743.2
37.5°	638.6	650.1	674.8	707.8	720.9
40°	607.2	619.6	646.0	682.2	697.1
42.5°	575.9	586.6	616.3	655.0	670.7
45°	542.2	554.5	585.8	626.2	642.7
47.5°	508.4	521.6	554.5	595.7	613.0
50°	473.8	487.8	521.6	563.6	582.5
52.5°	441.6	453.2	487.8	530.6	550.4
55°	407.8	418.6	452.3	496.0	515.8
57.5°	372.4	384.8	418.6	459.8	479.5
60°	337.8	350.2	382.3	423.5	443.3
62.5°	304.0	315.6	346.9	386.4	406.2
65°	268.6	281.0	311.4	347.7	366.7
67.5°	234.0	247.2	276.0	309.0	328.8
70°	196.9	211.8	239.8	270.3	285.9
72.5°	164.0	178.0	203.5	230.7	245.5
75°	133.5	145.8	167.3	191.2	202.7
77.5°	103.0	116.2	135.1	153.3	162.3
80°	75.8	88.2	103.0	115.4	119.5
82.5°	51.9	61.0	71.7	78.3	84.0
85°	31.3	36.3	42.8	45.3	47.8
87.5°	13.2	14.8	17.3	16.5	17.3
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.22	12.87	11.59	13.18	13.50	12.69	14.33	13.06	14.65	14.96
	3H	12.79	14.28	13.17	14.60	14.96	14.59	16.08	14.97	16.40	16.76
	4H	13.31	14.71	13.71	15.06	15.43	15.29	16.69	15.69	17.04	17.42
	6H	13.64	14.94	14.05	15.30	15.69	15.79	17.09	16.20	17.45	17.84
	8H	13.72	14.96	14.15	15.35	15.75	15.93	17.17	16.35	17.56	17.96
	12H	13.76	14.95	14.19	15.33	15.76	16.01	17.20	16.44	17.58	18.01
4H	2H	11.98	13.38	12.38	13.73	14.10	13.15	14.55	13.54	14.89	15.27
	3H	13.74	14.92	14.15	15.32	15.72	15.26	16.44	15.67	16.83	17.23
	4H	14.37	15.43	14.80	15.85	16.28	16.10	17.16	16.53	17.57	18.01
	6H	14.80	15.73	15.26	16.17	16.63	16.72	17.65	17.17	18.09	18.55
	8H	14.92	15.79	15.38	16.23	16.69	16.91	17.78	17.37	18.22	18.68
	12H	14.99	15.77	15.47	16.24	16.71	17.02	17.81	17.50	18.28	18.75
8H	4H	14.75	15.62	15.21	16.06	16.53	16.29	17.16	16.75	17.60	18.07
	6H	15.29	16.01	15.78	16.50	16.98	17.01	17.74	17.51	18.23	18.70
	8H	15.46	16.11	15.97	16.61	17.10	17.26	17.91	17.77	18.42	18.90
	12H	15.57	16.15	16.08	16.64	17.20	17.43	18.01	17.94	18.50	19.06
12H	4H	14.80	15.58	15.28	16.06	16.53	16.30	17.08	16.78	17.56	18.03
	6H	15.36	16.01	15.87	16.52	17.00	17.03	17.68	17.54	18.19	18.67
	8H	15.58	16.16	16.09	16.65	17.21	17.32	17.90	17.83	18.39	18.95