

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: P572131

Luminaire Tested: 24ID-25-L850-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572131
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-L850-DBD
Description: 2500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

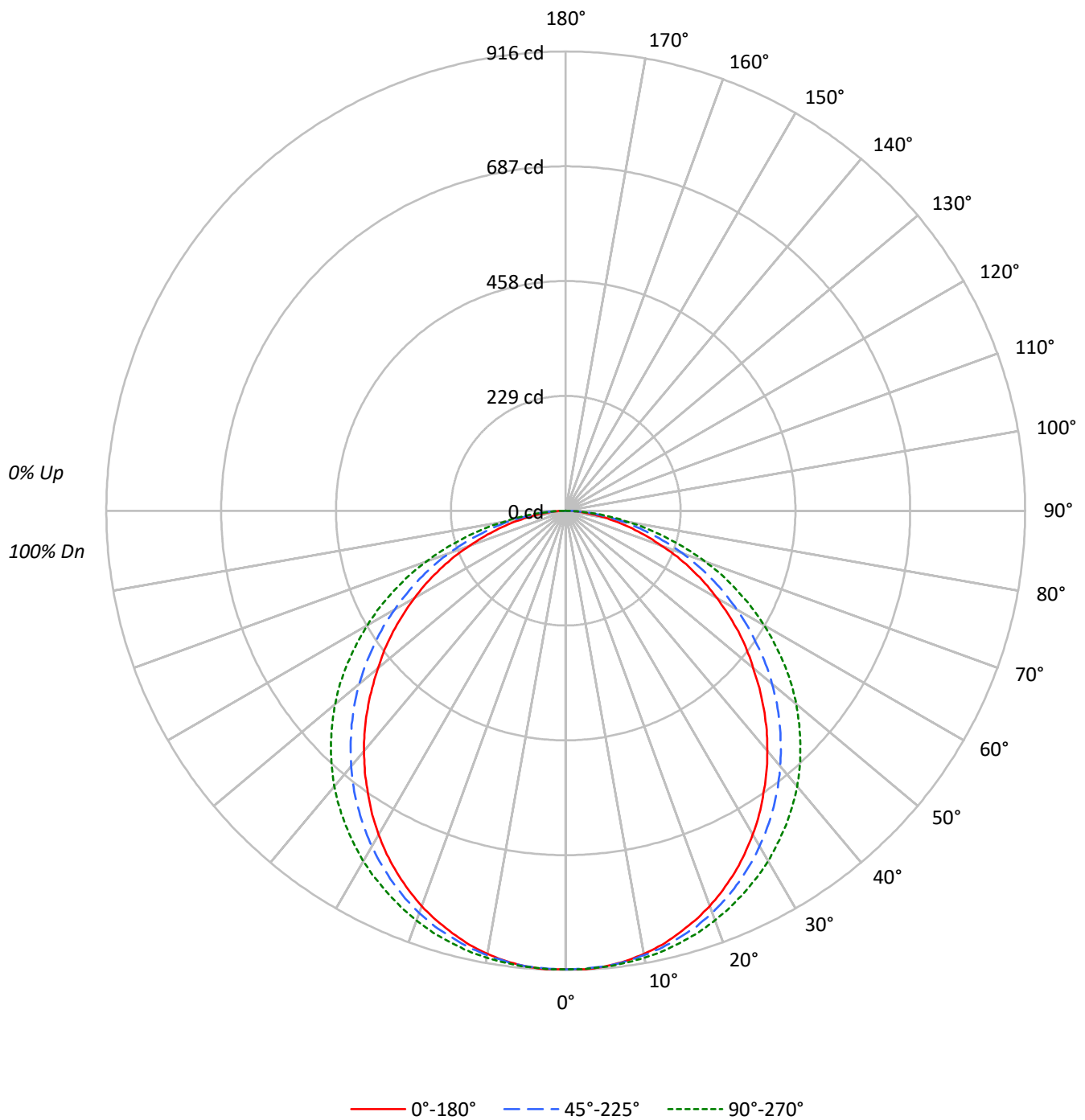
Lumens per Lamp: N/A
Luminaire Lumens: 2610.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P572131

CATALOG NUMBER: 24ID-25-L850-DBD

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		0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111			106	106	106		100
1	109	104	100	96	106	102	98	94	97	94	91			93	91	88		84
2	99	90	84	78	96	89	82	77	85	80	75			82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63			72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	54			64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46			58	51	46		43
6	70	56	47	41	68	56	47	41	54	46	40			52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36			47	41	36		33
8	60	47	38	32	59	46	38	32	45	37	32			43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29			40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26			37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1231	1231	1231
5°	1228	1223	1224
10°	1218	1211	1219
15°	1202	1199	1214
20°	1184	1184	1209
25°	1161	1165	1202
30°	1132	1143	1196
35°	1097	1117	1188
40°	1062	1088	1179
45°	1020	1055	1163
50°	973	1017	1142
55°	930	970	1114
60°	873	919	1074
65°	809	859	1020
70°	716	782	943
75°	619	674	828
80°	489	548	648
85°	337	339	389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1163 cd/sqm

TEST NUMBER: P572131

CATALOG NUMBER: 24ID-25-L850-DBD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	3.3
10°-20°	248.9	9.5
20°-30°	377.2	14.5
30°-40°	453.8	17.4
40°-50°	468.4	17.9
50°-60°	420.9	16.1
60°-70°	320.5	12.3
70°-80°	184.0	7.1
80°-90°	49.6	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°	712.8	27.3
0°-40°	1166.5	44.7
0°-60°	2055.9	78.8
0°-90°	2610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	912	913	912	911	913	87
15°	872	877	881	887	891	246
25°	797	804	817	834	841	367
35°	687	699	722	754	766	430
45°	558	571	603	645	662	431
55°	420	431	466	511	531	375
65°	277	289	321	358	378	274
75°	138	150	172	197	209	146
85°	32	37	44	47	49	38
90°	0	0	0	0	0	

TEST NUMBER: P572131

CATALOG NUMBER: 24ID-25-L850-DBD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.8	914.8	914.8	914.8	914.8
2.5°	915.7	915.7	914.0	913.1	914.8
5°	912.3	913.1	912.3	911.4	913.1
7.5°	906.4	907.2	907.2	908.1	909.8
10°	897.9	899.6	900.4	903.0	905.5
12.5°	886.8	888.5	891.9	896.2	899.6
15°	872.4	876.7	880.9	886.8	891.1
17.5°	857.1	862.2	869.0	876.7	881.7
20°	839.3	845.3	853.7	863.9	869.9
22.5°	818.9	826.6	836.8	849.5	856.3
25°	796.9	804.5	817.2	834.2	841.0
27.5°	772.3	780.8	796.0	815.6	824.9
30°	746.0	755.3	773.1	796.9	807.1
32.5°	718.0	728.1	748.5	775.7	786.7
35°	687.4	699.3	722.2	753.6	765.5
37.5°	657.7	669.6	695.0	729.0	742.6
40°	625.5	638.2	665.3	702.7	718.0
42.5°	593.2	604.2	634.8	674.7	690.8
45°	558.4	571.1	603.4	645.0	661.9
47.5°	523.6	537.2	571.1	613.6	631.4
50°	488.0	502.4	537.2	580.5	600.0
52.5°	454.9	466.8	502.4	546.5	566.9
55°	420.1	431.1	465.9	510.9	531.3
57.5°	383.6	396.3	431.1	473.5	493.9
60°	347.9	360.7	393.8	436.2	456.6
62.5°	313.2	325.0	357.3	398.0	418.4
65°	276.7	289.4	320.8	358.1	377.6
67.5°	241.0	254.6	284.3	318.2	338.6
70°	202.8	218.1	247.0	278.4	294.5
72.5°	168.9	183.3	209.6	237.6	252.9
75°	137.5	150.2	172.3	196.9	208.8
77.5°	106.1	119.7	139.2	157.8	167.2
80°	78.1	90.8	106.1	118.8	123.1
82.5°	53.5	62.8	73.8	80.6	86.6
85°	32.2	37.3	44.1	46.7	49.2
87.5°	13.6	15.3	17.8	17.0	17.8
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	11.33	12.97	11.69	13.28	13.60	12.79	14.44	13.16	14.75	15.06
	3H	12.89	14.38	13.27	14.71	15.07	14.69	16.18	15.07	16.51	16.87
	4H	13.41	14.81	13.81	15.16	15.54	15.40	16.80	15.79	17.14	17.52
	6H	13.74	15.04	14.15	15.40	15.80	15.89	17.19	16.30	17.55	17.94
	8H	13.82	15.07	14.25	15.45	15.85	16.03	17.27	16.46	17.66	18.06
	12H	13.87	15.06	14.30	15.44	15.87	16.11	17.30	16.54	17.68	18.11
4H	2H	12.08	13.48	12.48	13.83	14.20	13.25	14.65	13.65	15.00	15.37
	3H	13.85	15.02	14.26	15.42	15.82	15.36	16.54	15.77	16.94	17.34
	4H	14.47	15.53	14.90	15.95	16.38	16.20	17.26	16.63	17.67	18.11
	6H	14.91	15.84	15.36	16.28	16.73	16.82	17.75	17.28	18.19	18.65
	8H	15.02	15.89	15.48	16.33	16.80	17.01	17.88	17.47	18.32	18.79
	12H	15.09	15.87	15.57	16.35	16.81	17.13	17.91	17.61	18.38	18.85
8H	4H	14.85	15.72	15.31	16.17	16.63	16.39	17.26	16.85	17.71	18.17
	6H	15.39	16.12	15.89	16.60	17.08	17.12	17.84	17.61	18.33	18.80
	8H	15.56	16.21	16.07	16.72	17.20	17.36	18.01	17.87	18.52	19.00
	12H	15.67	16.25	16.18	16.74	17.30	17.53	18.11	18.04	18.60	19.16
12H	4H	14.90	15.69	15.38	16.16	16.63	16.40	17.18	16.88	17.66	18.13
	6H	15.46	16.12	15.97	16.62	17.11	17.13	17.78	17.64	18.29	18.78
	8H	15.68	16.26	16.19	16.75	17.31	17.43	18.00	17.93	18.49	19.05

END OF REPORT