

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: P572139

Luminaire Tested: 24ID-30-L850-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572139
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-30-L850-DBD
Description: 3000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

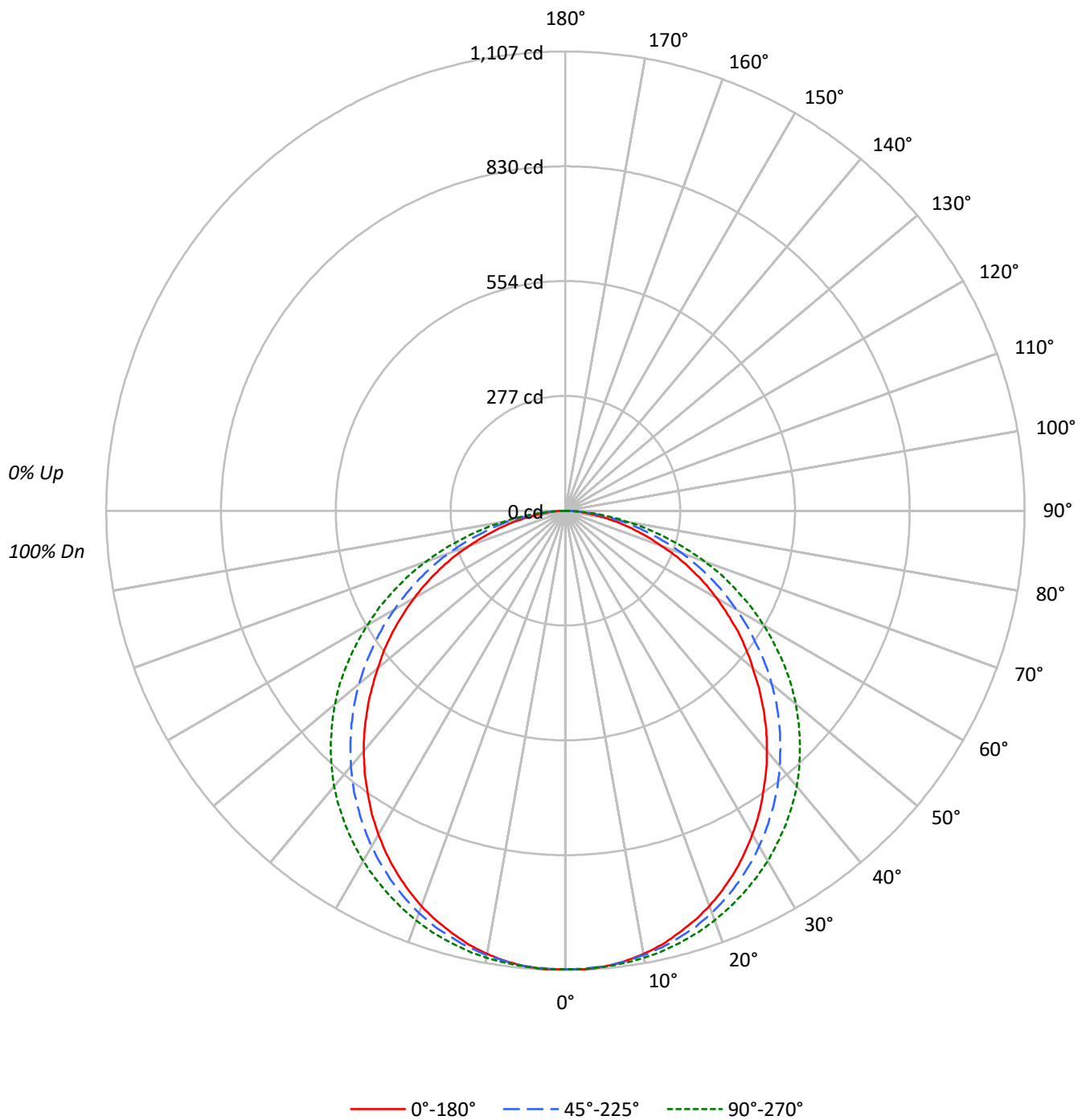
Lumens per Lamp: N/A
Luminaire Lumens: 3154.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 25.8
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	54		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		58	51	46		56
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1487	1487	1487
5°	1484	1478	1480
10°	1472	1464	1473
15°	1452	1448	1467
20°	1431	1431	1461
25°	1402	1408	1452
30°	1368	1381	1446
35°	1326	1350	1436
40°	1283	1315	1424
45°	1233	1275	1405
50°	1176	1229	1381
55°	1124	1173	1346
60°	1055	1110	1297
65°	977	1038	1233
70°	865	944	1139
75°	747	814	1000
80°	591	662	782
85°	408	409	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1405 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	3.3
10°-20°	300.7	9.5
20°-30°	455.8	14.5
30°-40°	548.3	17.4
40°-50°	566.1	17.9
50°-60°	508.6	16.1
60°-70°	387.3	12.3
70°-80°	222.4	7.0
80°-90°	60.0	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°	861.3	27.3
0°-40°	1409.7	44.7
0°-60°	2484.4	78.8
0°-90°	3154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1102	1104	1102	1101	1104	105
15°	1054	1059	1064	1072	1077	297
25°	963	972	988	1008	1016	443
35°	831	845	873	911	925	520
45°	675	690	729	779	800	520
55°	508	521	563	617	642	453
65°	334	350	388	433	456	331
75°	166	182	208	238	252	176
85°	39	45	53	56	60	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.5	1105.5	1105.5	1105.5	1105.5
2.5°	1106.6	1106.6	1104.5	1103.5	1105.5
5°	1102.4	1103.5	1102.4	1101.4	1103.5
7.5°	1095.3	1096.3	1096.3	1097.3	1099.4
10°	1085.0	1087.1	1088.1	1091.2	1094.2
12.5°	1071.7	1073.7	1077.8	1083.0	1087.1
15°	1054.2	1059.4	1064.5	1071.7	1076.8
17.5°	1035.8	1041.9	1050.1	1059.4	1065.5
20°	1014.3	1021.4	1031.7	1044.0	1051.2
22.5°	989.6	998.9	1011.2	1026.6	1034.8
25°	963.0	972.2	987.6	1008.1	1016.3
27.5°	933.2	943.5	961.9	985.5	996.8
30°	901.4	912.7	934.3	963.0	975.3
32.5°	867.6	879.9	904.5	937.3	950.7
35°	830.7	845.0	872.7	910.7	925.0
37.5°	794.8	809.1	839.9	880.9	897.3
40°	755.8	771.2	804.0	849.1	867.6
42.5°	716.8	730.2	767.1	815.3	834.8
45°	674.8	690.2	729.2	779.4	799.9
47.5°	632.8	649.2	690.2	741.5	763.0
50°	589.7	607.1	649.2	701.5	725.1
52.5°	549.7	564.0	607.1	660.4	685.1
55°	507.6	521.0	563.0	617.4	642.0
57.5°	463.5	478.9	521.0	572.2	596.9
60°	420.5	435.9	475.8	527.1	551.7
62.5°	378.4	392.8	431.7	481.0	505.6
65°	334.3	349.7	387.7	432.8	456.4
67.5°	291.3	307.7	343.6	384.6	409.2
70°	245.1	263.6	298.4	336.4	355.9
72.5°	204.1	221.5	253.3	287.1	305.6
75°	166.1	181.5	208.2	237.9	252.3
77.5°	128.2	144.6	168.2	190.7	202.0
80°	94.3	109.7	128.2	143.6	148.7
82.5°	64.6	75.9	89.2	97.4	104.6
85°	39.0	45.1	53.3	56.4	59.5
87.5°	16.4	18.5	21.5	20.5	21.5
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	11.98	13.63	12.35	13.94	14.26	13.45	15.09	13.82	15.41	15.72
	3H	13.55	15.04	13.93	15.36	15.72	15.35	16.84	15.73	17.16	17.52
	4H	14.07	15.47	14.47	15.82	16.19	16.05	17.45	16.45	17.80	18.18
	6H	14.40	15.70	14.81	16.06	16.45	16.55	17.85	16.96	18.21	18.60
	8H	14.48	15.72	14.91	16.11	16.51	16.69	17.93	17.11	18.32	18.72
	12H	14.52	15.71	14.95	16.09	16.52	16.77	17.96	17.20	18.34	18.77
4H	2H	12.74	14.14	13.14	14.49	14.86	13.91	15.31	14.30	15.65	16.03
	3H	14.51	15.68	14.91	16.08	16.48	16.02	17.20	16.43	17.59	17.99
	4H	15.13	16.19	15.56	16.61	17.04	16.86	17.92	17.29	18.33	18.77
	6H	15.56	16.49	16.02	16.93	17.39	17.48	18.41	17.93	18.85	19.31
	8H	15.68	16.55	16.14	16.99	17.45	17.67	18.54	18.13	18.98	19.44
	12H	15.75	16.53	16.23	17.00	17.47	17.78	18.57	18.26	19.04	19.51
8H	4H	15.51	16.38	15.97	16.82	17.29	17.05	17.92	17.51	18.36	18.83
	6H	16.05	16.77	16.54	17.26	17.74	17.77	18.50	18.27	18.99	19.46
	8H	16.22	16.87	16.73	17.37	17.86	18.02	18.67	18.53	19.18	19.66
	12H	16.33	16.90	16.84	17.40	17.96	18.19	18.77	18.70	19.26	19.82
12H	4H	15.56	16.34	16.04	16.82	17.29	17.06	17.84	17.54	18.32	18.79
	6H	16.12	16.77	16.63	17.28	17.76	17.79	18.44	18.30	18.95	19.43
	8H	16.34	16.92	16.85	17.41	17.97	18.08	18.66	18.59	19.15	19.71