

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: P572140

Luminaire Tested: 24ID-30-L850-DBR

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-7)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-30-L850-DBR
Description: 3000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN REGRESSED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

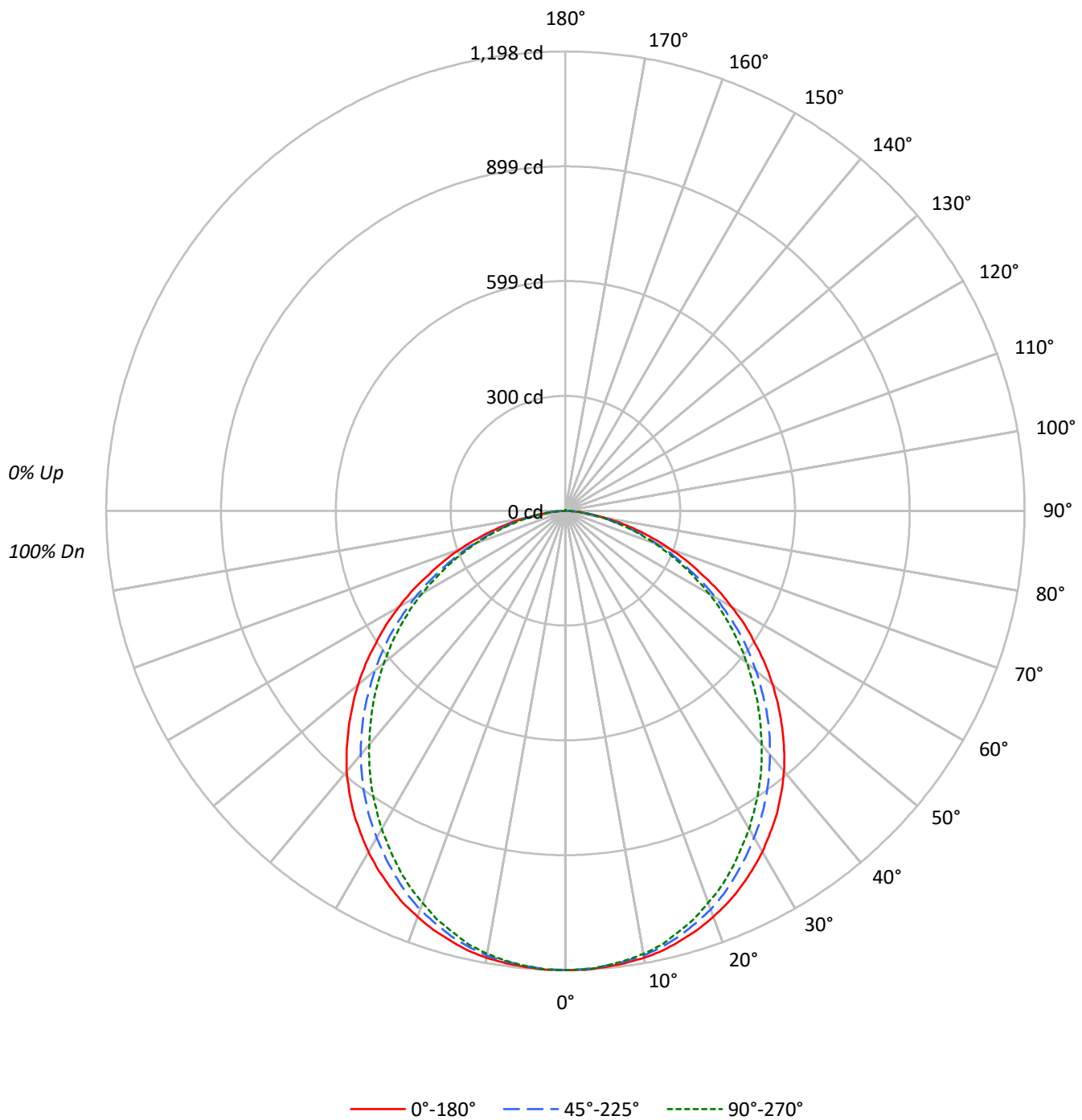
Lumens per Lamp: N/A
Luminaire Lumens: 3149.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.19 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	105	101	97	107	103	99	95	98	95	92		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	31	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1612	1612	1612
5°	1614	1610	1610
10°	1618	1610	1603
15°	1618	1601	1585
20°	1614	1586	1559
25°	1608	1560	1528
30°	1596	1529	1489
35°	1582	1498	1448
40°	1559	1459	1399
45°	1522	1414	1349
50°	1478	1359	1294
55°	1418	1299	1234
60°	1345	1217	1163
65°	1249	1117	1072
70°	1144	1004	974
75°	991	863	840
80°	799	680	680
85°	403	428	403

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1522 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.6
10°-20°	324.1	10.3
20°-30°	485.2	15.4
30°-40°	573.4	18.2
40°-50°	577.2	18.3
50°-60°	499.5	15.9
60°-70°	355.7	11.3
70°-80°	182.6	5.8
80°-90°	37.8	1.2
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°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	922.6	29.3
0°-40°	1496.0	47.5
0°-60°	2572.7	81.7
0°-90°	3148.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1195	1194	1192	1190	1192	114
15°	1161	1157	1149	1140	1138	328
25°	1083	1074	1050	1034	1029	499
35°	963	948	912	889	881	602
45°	800	783	743	717	709	617
55°	604	588	554	531	526	541
65°	392	378	351	338	337	391
75°	191	182	166	160	162	203
85°	26	26	28	28	26	39
90°	0	0	0	0	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	2	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.2	1198.2	1198.2	1198.2	1198.2
2.5°	1198.2	1196.6	1196.6	1195.1	1198.2
5°	1195.1	1193.6	1192.0	1190.5	1192.0
7.5°	1190.5	1187.4	1185.9	1182.8	1184.3
10°	1184.3	1181.3	1178.2	1173.6	1173.6
12.5°	1175.1	1172.0	1165.9	1159.7	1159.7
15°	1161.3	1156.7	1149.0	1139.7	1138.2
17.5°	1145.9	1139.7	1129.0	1118.2	1116.7
20°	1127.4	1121.3	1107.4	1093.6	1089.0
22.5°	1107.4	1099.7	1081.3	1065.9	1061.3
25°	1082.8	1073.6	1050.5	1033.6	1029.0
27.5°	1056.7	1044.4	1018.2	999.8	993.6
30°	1027.5	1015.1	984.4	965.9	958.2
32.5°	995.2	981.3	950.5	927.5	919.8
35°	962.9	947.5	912.1	889.0	881.3
37.5°	925.9	909.0	872.1	847.5	839.8
40°	887.5	870.6	830.6	806.0	796.7
42.5°	844.4	827.5	787.5	761.4	752.1
45°	799.8	782.9	742.9	716.8	709.1
47.5°	753.7	733.7	695.2	670.6	662.9
50°	706.0	686.0	649.1	624.5	618.3
52.5°	656.8	636.8	601.4	576.8	572.2
55°	604.5	587.6	553.7	530.6	526.0
57.5°	555.3	536.8	501.4	484.5	479.9
60°	499.9	484.5	452.2	436.8	432.2
62.5°	449.1	433.7	401.4	384.5	383.0
65°	392.2	378.4	350.7	338.4	336.8
67.5°	343.0	327.6	304.5	292.2	292.2
70°	290.7	276.9	255.3	247.6	247.6
72.5°	238.4	229.2	210.7	203.0	204.6
75°	190.7	181.5	166.1	160.0	161.5
77.5°	146.1	135.4	126.1	121.5	123.0
80°	103.1	95.4	87.7	86.1	87.7
82.5°	61.5	56.9	55.4	55.4	55.4
85°	26.1	26.1	27.7	27.7	26.1
87.5°	10.8	9.2	9.2	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	1.5	0.0	1.5	1.5	1.5
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	1.5	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	1.5
177.5°	0.0	0.0	1.5	1.5	1.5
180°	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	13.39	14.99	13.75	15.30	15.62	12.62	14.22	12.99	14.54	14.85
	3H	15.01	16.46	15.39	16.78	17.14	14.17	15.62	14.55	15.94	16.30
	4H	15.56	16.92	15.96	17.27	17.65	14.69	16.05	15.09	16.40	16.78
	6H	15.92	17.17	16.33	17.54	17.93	15.03	16.28	15.44	16.65	17.04
	8H	15.99	17.19	16.42	17.58	17.98	15.11	16.30	15.53	16.69	17.09
	12H	16.02	17.16	16.45	17.55	17.97	15.14	16.28	15.57	16.67	17.10
4H	2H	13.85	15.21	14.25	15.56	15.93	13.23	14.59	13.63	14.93	15.31
	3H	15.68	16.82	16.09	17.21	17.61	14.98	16.11	15.39	16.51	16.91
	4H	16.35	17.37	16.78	17.79	18.22	15.60	16.62	16.03	17.03	17.47
	6H	16.81	17.70	17.27	18.14	18.60	16.03	16.92	16.48	17.36	17.81
	8H	16.92	17.75	17.38	18.19	18.66	16.14	16.97	16.60	17.41	17.88
	12H	16.96	17.71	17.44	18.18	18.65	16.19	16.94	16.67	17.41	17.88
8H	4H	16.54	17.37	17.00	17.81	18.28	15.86	16.69	16.32	17.13	17.60
	6H	17.08	17.76	17.57	18.25	18.73	16.37	17.06	16.86	17.55	18.02
	8H	17.22	17.84	17.73	18.35	18.83	16.52	17.14	17.03	17.65	18.13
	12H	17.30	17.84	17.81	18.33	18.90	16.62	17.16	17.12	17.65	18.21
12H	4H	16.55	17.29	17.03	17.77	18.24	15.88	16.62	16.36	17.10	17.57
	6H	17.08	17.70	17.60	18.21	18.70	16.39	17.01	16.90	17.52	18.01
	8H	17.27	17.81	17.78	18.31	18.87	16.59	17.14	17.10	17.63	18.19