

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: P572195

Luminaire Tested: 24ID-65-L850-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572195
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-65-L850-DBD
Description: 6500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

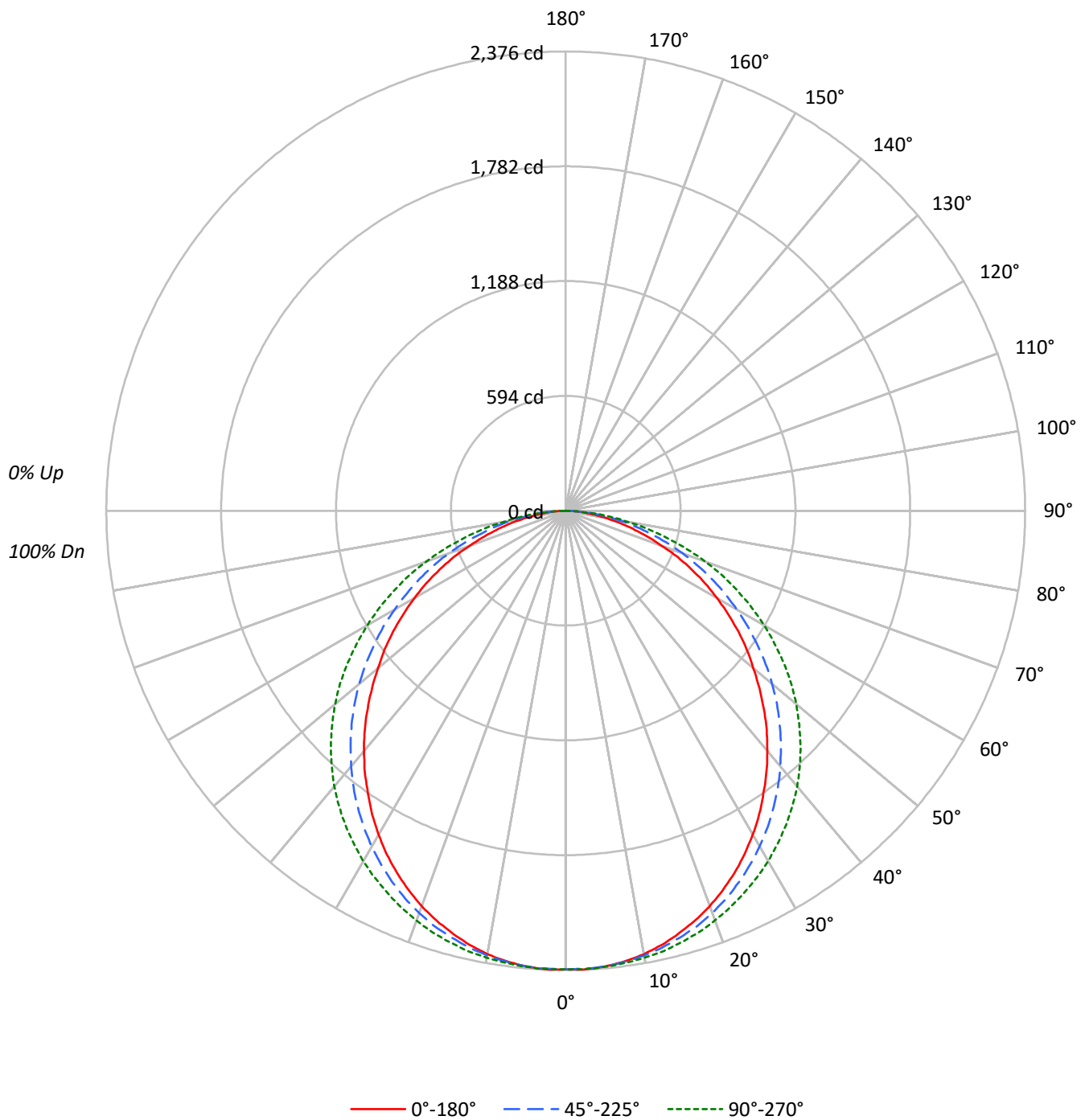
Lumens per Lamp: N/A
Luminaire Lumens: 6771.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 60.5
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		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°	3193	3193	3193
5°	3185	3172	3176
10°	3159	3142	3163
15°	3118	3110	3150
20°	3071	3072	3136
25°	3011	3023	3118
30°	2936	2965	3104
35°	2846	2898	3082
40°	2754	2822	3058
45°	2646	2737	3016
50°	2524	2639	2964
55°	2413	2518	2889
60°	2266	2384	2785
65°	2097	2227	2646
70°	1857	2028	2446
75°	1605	1747	2148
80°	1269	1420	1679
85°	875	879	1010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3016 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	3.3
10°-20°	645.6	9.5
20°-30°	978.6	14.5
30°-40°	1177.1	17.4
40°-50°	1215.2	17.9
50°-60°	1091.9	16.1
60°-70°	831.4	12.3
70°-80°	477.4	7.1
80°-90°	128.8	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°	1849.1	27.3
0°-40°	3026.3	44.7
0°-60°	5333.5	78.8
0°-90°	6771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6771.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2373	2373	2373	2373	2373	
5°	2367	2369	2367	2364	2369	225
15°	2263	2274	2285	2301	2312	638
25°	2067	2087	2120	2164	2182	952
35°	1783	1814	1874	1955	1986	1116
45°	1449	1482	1565	1673	1717	1117
55°	1090	1118	1209	1325	1378	972
65°	718	751	832	929	980	710
75°	357	390	447	511	542	378
85°	84	97	114	121	128	98
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2373.3	2373.3	2373.3	2373.3	2373.3
2.5°	2375.5	2375.5	2371.1	2368.9	2373.3
5°	2366.7	2368.9	2366.7	2364.5	2368.9
7.5°	2351.3	2353.5	2353.5	2355.7	2360.1
10°	2329.3	2333.7	2335.9	2342.5	2349.1
12.5°	2300.7	2305.1	2313.9	2324.9	2333.7
15°	2263.3	2274.3	2285.3	2300.7	2311.7
17.5°	2223.6	2236.8	2254.5	2274.3	2287.5
20°	2177.4	2192.8	2214.8	2241.2	2256.7
22.5°	2124.6	2144.4	2170.8	2203.8	2221.4
25°	2067.3	2087.1	2120.2	2164.2	2181.8
27.5°	2003.5	2025.5	2065.1	2115.7	2140.0
30°	1935.2	1959.4	2005.7	2067.3	2093.7
32.5°	1862.6	1889.0	1941.8	2012.3	2040.9
35°	1783.3	1814.1	1873.6	1955.0	1985.9
37.5°	1706.2	1737.1	1803.1	1891.2	1926.4
40°	1622.6	1655.6	1726.1	1822.9	1862.6
42.5°	1538.9	1567.5	1646.8	1750.3	1792.1
45°	1448.7	1481.7	1565.3	1673.2	1717.3
47.5°	1358.4	1393.6	1481.7	1591.8	1638.0
50°	1265.9	1303.4	1393.6	1505.9	1556.5
52.5°	1180.1	1210.9	1303.4	1417.8	1470.7
55°	1089.8	1118.4	1208.7	1325.4	1378.2
57.5°	995.1	1028.2	1118.4	1228.5	1281.3
60°	902.7	935.7	1021.5	1131.6	1184.5
62.5°	812.4	843.2	926.9	1032.6	1085.4
65°	717.7	750.7	832.2	929.1	979.7
67.5°	625.3	660.5	737.5	825.6	878.4
70°	526.2	565.8	640.7	722.1	764.0
72.5°	438.1	475.5	543.8	616.5	656.1
75°	356.7	389.7	446.9	510.8	541.6
77.5°	275.2	310.4	361.1	409.5	433.7
80°	202.5	235.6	275.2	308.2	319.2
82.5°	138.7	162.9	191.5	209.2	224.6
85°	83.7	96.9	114.5	121.1	127.7
87.5°	35.2	39.6	46.2	44.0	46.2
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	14.64	16.28	15.00	16.60	16.91	16.11	17.75	16.47	18.06	18.38
	3H	16.21	17.69	16.58	18.02	18.38	18.01	19.49	18.38	19.82	20.18
	4H	16.72	18.13	17.12	18.47	18.85	18.71	20.11	19.11	20.46	20.83
	6H	17.05	18.35	17.46	18.72	19.11	19.20	20.50	19.61	20.86	21.26
	8H	17.14	18.38	17.56	18.77	19.16	19.34	20.59	19.77	20.97	21.37
	12H	17.18	18.37	17.61	18.75	19.18	19.42	20.61	19.85	20.99	21.42
4H	2H	15.39	16.79	15.79	17.14	17.52	16.56	17.96	16.96	18.31	18.68
	3H	17.16	18.33	17.57	18.73	19.13	18.68	19.85	19.09	20.25	20.65
	4H	17.78	18.85	18.21	19.26	19.70	19.51	20.57	19.94	20.99	21.42
	6H	18.22	19.15	18.67	19.59	20.04	20.13	21.06	20.59	21.50	21.96
	8H	18.33	19.20	18.79	19.64	20.11	20.32	21.19	20.78	21.63	22.10
	12H	18.40	19.18	18.88	19.66	20.13	20.44	21.22	20.92	21.70	22.17
8H	4H	18.17	19.04	18.62	19.48	19.94	19.70	20.58	20.16	21.02	21.48
	6H	18.70	19.43	19.20	19.92	20.39	20.43	21.15	20.92	21.64	22.12
	8H	18.87	19.52	19.38	20.03	20.51	20.68	21.33	21.18	21.83	22.32
	12H	18.98	19.56	19.49	20.05	20.61	20.85	21.42	21.35	21.91	22.47
12H	4H	18.22	19.00	18.69	19.47	19.94	19.71	20.50	20.19	20.97	21.44
	6H	18.78	19.43	19.28	19.93	20.42	20.45	21.10	20.95	21.60	22.09
	8H	19.00	19.57	19.50	20.06	20.62	20.74	21.31	21.24	21.80	22.36

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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