

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: P572203

Luminaire Tested: 24ID-70-L850-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572203
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-70-L850-DBD
Description: 7000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

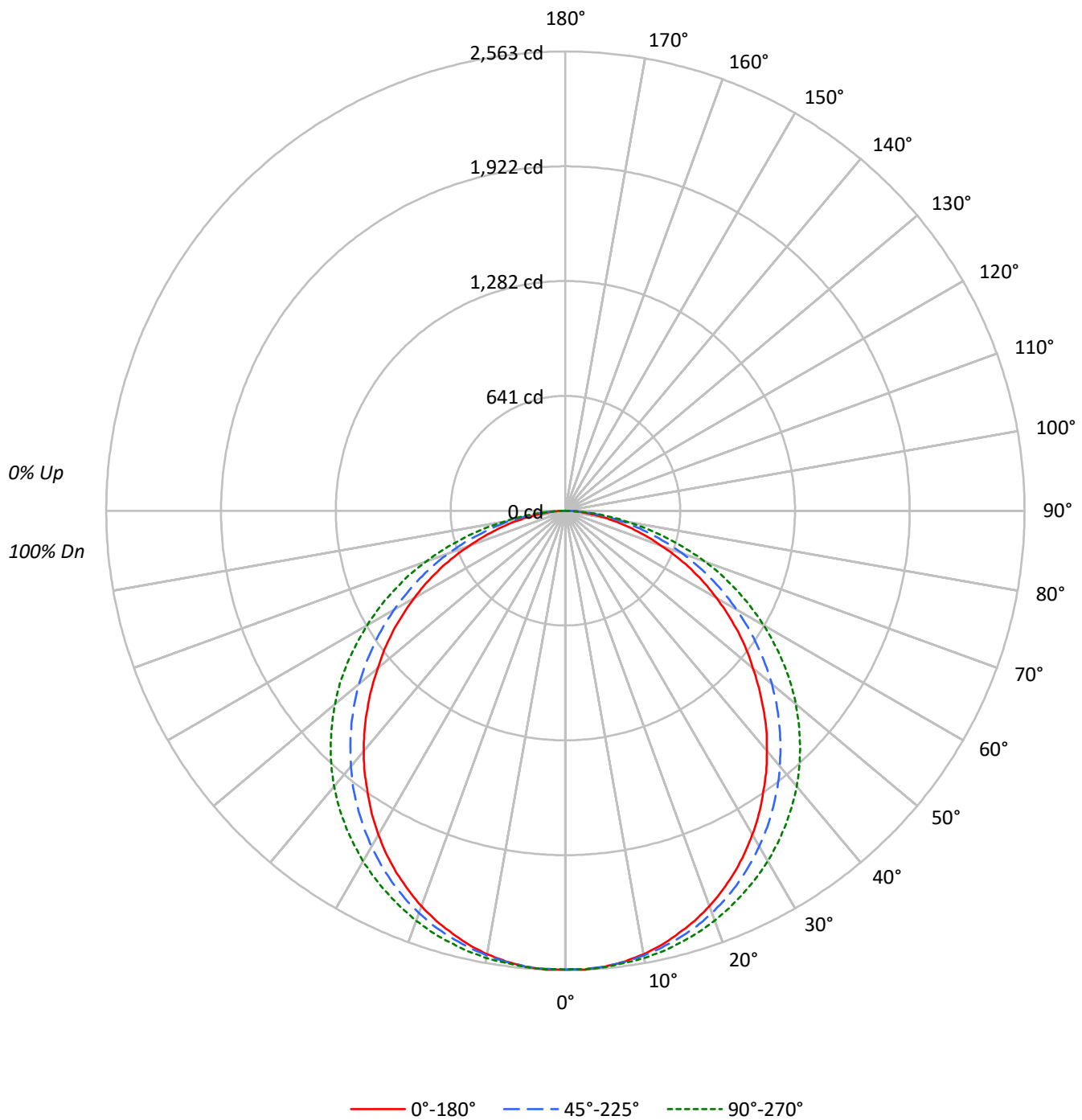
Lumens per Lamp: N/A
Luminaire Lumens: 7305.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 65.6
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°	3445	3445	3445
5°	3436	3422	3427
10°	3408	3390	3412
15°	3364	3355	3398
20°	3313	3315	3383
25°	3248	3261	3364
30°	3167	3199	3348
35°	3070	3127	3325
40°	2971	3045	3299
45°	2855	2952	3254
50°	2724	2847	3198
55°	2603	2716	3117
60°	2444	2572	3005
65°	2263	2403	2855
70°	2004	2188	2638
75°	1731	1885	2317
80°	1369	1532	1812
85°	944	948	1089

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	3.3
10°-20°	696.5	9.5
20°-30°	1055.7	14.5
30°-40°	1270.0	17.4
40°-50°	1311.1	17.9
50°-60°	1178.1	16.1
60°-70°	897.0	12.3
70°-80°	515.0	7.1
80°-90°	138.9	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°	1995.0	27.3
0°-40°	3264.9	44.7
0°-60°	5754.1	78.8
0°-90°	7305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2560	2560	2560	2560	2560	
5°	2553	2556	2553	2551	2556	242
15°	2442	2454	2466	2482	2494	689
25°	2230	2252	2287	2335	2354	1027
35°	1924	1957	2021	2109	2142	1204
45°	1563	1598	1689	1805	1853	1205
55°	1176	1207	1304	1430	1487	1049
65°	774	810	898	1002	1057	766
75°	385	420	482	551	584	408
85°	90	104	124	131	138	105
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2560.5	2560.5	2560.5	2560.5	2560.5
2.5°	2562.9	2562.9	2558.1	2555.8	2560.5
5°	2553.4	2555.8	2553.4	2551.0	2555.8
7.5°	2536.8	2539.1	2539.1	2541.5	2546.3
10°	2513.0	2517.8	2520.1	2527.3	2534.4
12.5°	2482.1	2486.9	2496.4	2508.3	2517.8
15°	2441.8	2453.6	2465.5	2482.1	2494.0
17.5°	2399.0	2413.2	2432.2	2453.6	2467.9
20°	2349.1	2365.7	2389.5	2418.0	2434.6
22.5°	2292.1	2313.5	2342.0	2377.6	2396.6
25°	2230.4	2251.7	2287.4	2334.9	2353.9
27.5°	2161.5	2185.2	2228.0	2282.6	2308.7
30°	2087.8	2114.0	2163.8	2230.4	2258.9
32.5°	2009.5	2038.0	2095.0	2171.0	2201.9
35°	1923.9	1957.2	2021.3	2109.2	2142.5
37.5°	1840.8	1874.1	1945.3	2040.3	2078.3
40°	1750.6	1786.2	1862.2	1966.7	2009.5
42.5°	1660.3	1691.2	1776.7	1888.3	1933.4
45°	1562.9	1598.5	1688.8	1805.2	1852.7
47.5°	1465.5	1503.5	1598.5	1717.3	1767.2
50°	1365.8	1406.1	1503.5	1624.7	1679.3
52.5°	1273.1	1306.4	1406.1	1529.7	1586.7
55°	1175.7	1206.6	1304.0	1429.9	1486.9
57.5°	1073.6	1109.2	1206.6	1325.4	1382.4
60°	973.8	1009.5	1102.1	1220.9	1277.9
62.5°	876.5	909.7	1000.0	1114.0	1171.0
65°	774.3	810.0	897.8	1002.4	1057.0
67.5°	674.6	712.6	795.7	890.7	947.7
70°	567.7	610.4	691.2	779.1	824.2
72.5°	472.7	513.1	586.7	665.1	707.8
75°	384.8	420.4	482.2	551.1	584.3
77.5°	296.9	334.9	389.5	441.8	467.9
80°	218.5	254.2	296.9	332.5	344.4
82.5°	149.6	175.8	206.6	225.6	242.3
85°	90.3	104.5	123.5	130.6	137.8
87.5°	38.0	42.8	49.9	47.5	49.9
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	14.90	16.55	15.27	16.86	17.17	16.37	18.01	16.73	18.33	18.64
	3H	16.47	17.96	16.85	18.28	18.64	18.27	19.76	18.65	20.08	20.44
	4H	16.99	18.39	17.39	18.74	19.11	18.97	20.37	19.37	20.72	21.09
	6H	17.32	18.62	17.73	18.98	19.37	19.47	20.76	19.88	21.13	21.52
	8H	17.40	18.64	17.82	19.03	19.43	19.61	20.85	20.03	21.24	21.64
	12H	17.44	18.63	17.87	19.01	19.44	19.69	20.88	20.12	21.26	21.69
4H	2H	15.66	17.06	16.05	17.40	17.78	16.83	18.23	17.22	18.57	18.95
	3H	17.42	18.60	17.83	19.00	19.40	18.94	20.12	19.35	20.51	20.91
	4H	18.05	19.11	18.48	19.52	19.96	19.77	20.84	20.21	21.25	21.69
	6H	18.48	19.41	18.93	19.85	20.31	20.40	21.33	20.85	21.77	22.22
	8H	18.60	19.47	19.06	19.91	20.37	20.59	21.46	21.05	21.90	22.36
	12H	18.66	19.45	19.14	19.92	20.39	20.70	21.49	21.18	21.96	22.43
8H	4H	18.43	19.30	18.89	19.74	20.21	19.97	20.84	20.43	21.28	21.75
	6H	18.97	19.69	19.46	20.18	20.65	20.69	21.42	21.19	21.90	22.38
	8H	19.14	19.79	19.64	20.29	20.78	20.94	21.59	21.45	22.09	22.58
	12H	19.25	19.82	19.75	20.31	20.87	21.11	21.69	21.62	22.18	22.74
12H	4H	18.48	19.26	18.96	19.74	20.21	19.98	20.76	20.46	21.23	21.70
	6H	19.04	19.69	19.55	20.20	20.68	20.71	21.36	21.22	21.87	22.35
	8H	19.26	19.83	19.77	20.32	20.88	21.00	21.58	21.51	22.07	22.63

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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