

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P383869

Luminaire Tested: **24ID-70-L850-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-70-L850-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

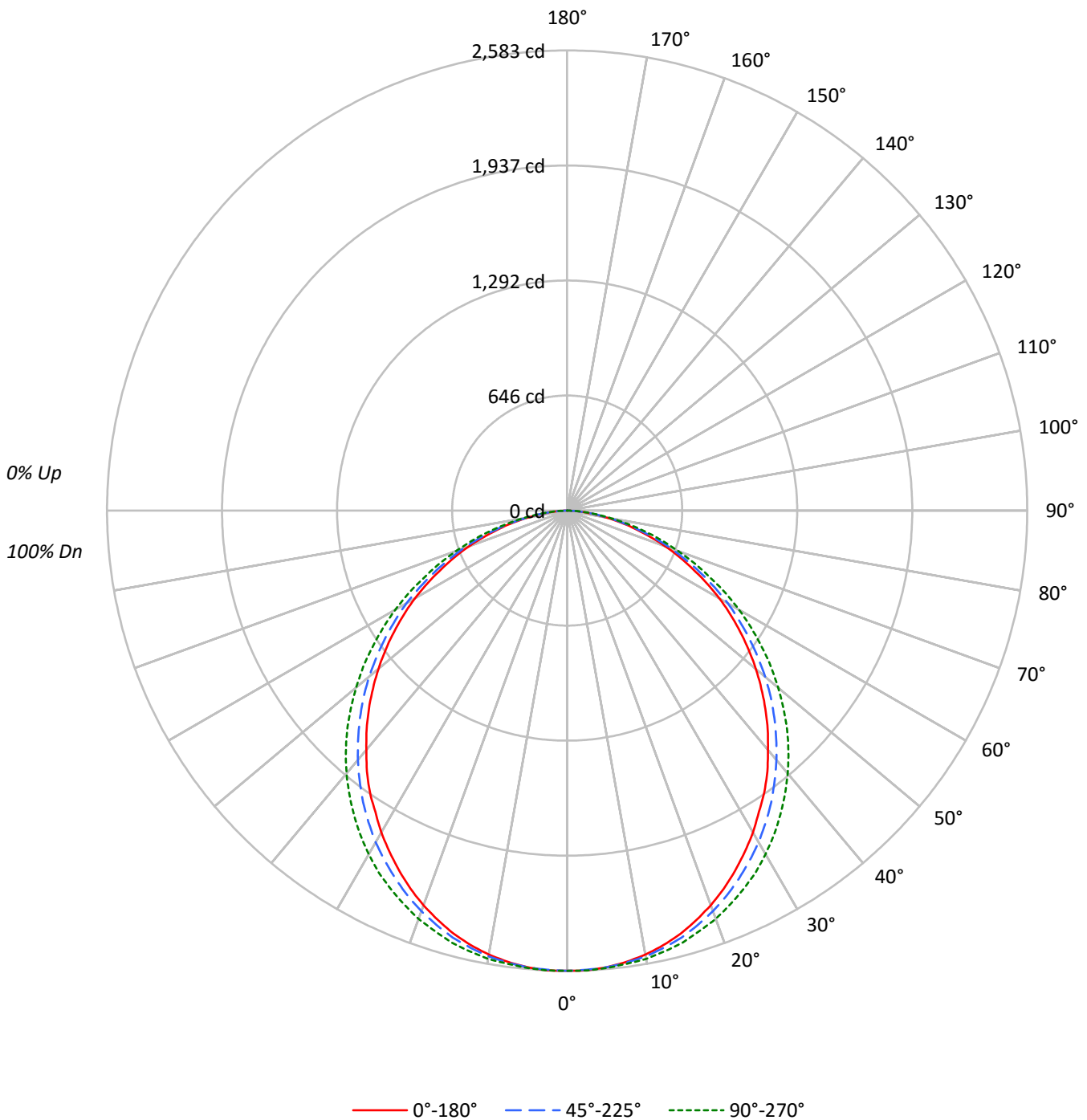
Lumens per Lamp: N/A
Luminaire Lumens: 7016.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 65.7
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	102	102	102	100					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3476	3476	3476
5°	3475	3475	3480
10°	3457	3472	3491
15°	3426	3456	3495
20°	3376	3426	3492
25°	3311	3385	3479
30°	3240	3339	3460
35°	3171	3281	3426
40°	3081	3211	3384
45°	2995	3129	3324
50°	2896	3036	3236
55°	2782	2922	3129
60°	2659	2802	3001
65°	2483	2629	2809
70°	2305	2430	2596
75°	2055	2165	2348
80°	1722	1805	1969
85°	1308	1308	1471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.5	3.5
10°-20°	699.6	10.0
20°-30°	1051.9	15.0
30°-40°	1251.4	17.8
40°-50°	1273.3	18.1
50°-60°	1120.6	16.0
60°-70°	822.0	11.7
70°-80°	446.2	6.4
80°-90°	106.5	1.5
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°	1996.0	28.4
0°-40°	3247.4	46.3
0°-60°	5641.3	80.4
0°-90°	7016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2583	2583	2583	2583	2583	
5°	2573	2569	2573	2573	2576	244
15°	2460	2463	2481	2495	2509	693
25°	2230	2244	2280	2319	2343	1027
35°	1930	1945	1998	2058	2086	1205
45°	1574	1588	1645	1715	1747	1213
55°	1186	1203	1246	1306	1334	1060
65°	780	794	826	861	882	775
75°	395	402	416	438	452	420
85°	85	85	85	92	95	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2583.3	2583.3	2583.3	2583.3	2583.3
2.5°	2583.3	2579.8	2579.8	2579.8	2583.3
5°	2572.8	2569.2	2572.8	2572.8	2576.3
7.5°	2555.1	2551.6	2558.6	2562.2	2565.7
10°	2530.4	2530.4	2541.0	2548.1	2555.1
12.5°	2498.6	2502.2	2512.8	2523.4	2533.9
15°	2459.8	2463.4	2481.0	2495.1	2509.2
17.5°	2410.4	2417.5	2438.7	2459.8	2473.9
20°	2357.5	2368.1	2392.8	2421.0	2438.7
22.5°	2297.5	2311.6	2339.8	2375.1	2392.8
25°	2230.4	2244.5	2279.8	2318.7	2343.4
27.5°	2159.8	2177.5	2216.3	2262.2	2290.4
30°	2085.7	2103.4	2149.3	2198.7	2226.9
32.5°	2004.6	2025.7	2075.1	2131.6	2159.8
35°	1930.5	1944.6	1997.5	2057.5	2085.7
37.5°	1845.8	1863.4	1912.8	1976.3	2008.1
40°	1754.0	1771.6	1828.1	1891.6	1926.9
42.5°	1665.8	1679.9	1736.3	1806.9	1838.7
45°	1574.0	1588.1	1644.6	1715.2	1746.9
47.5°	1478.7	1496.4	1549.3	1616.4	1648.1
50°	1383.4	1397.5	1450.5	1514.0	1545.8
52.5°	1284.6	1298.7	1348.1	1411.7	1443.4
55°	1185.8	1203.4	1245.8	1305.8	1334.0
57.5°	1087.0	1104.6	1143.4	1199.9	1224.6
60°	988.2	1002.3	1041.1	1090.5	1115.2
62.5°	882.3	892.9	931.7	981.1	1002.3
65°	779.9	794.1	825.8	861.1	882.3
67.5°	684.7	691.7	719.9	758.8	772.9
70°	585.8	592.9	617.6	649.4	660.0
72.5°	487.0	497.6	515.3	543.5	557.6
75°	395.3	402.3	416.4	437.6	451.7
77.5°	307.0	310.6	321.2	338.8	349.4
80°	222.3	225.9	232.9	247.0	254.1
82.5°	148.2	151.8	155.3	162.3	169.4
85°	84.7	84.7	84.7	91.8	95.3
87.5°	31.8	28.2	28.2	28.2	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)