

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: P383865

Luminaire Tested: **24ID-65-L850-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383865  
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-65-L850-CFR1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

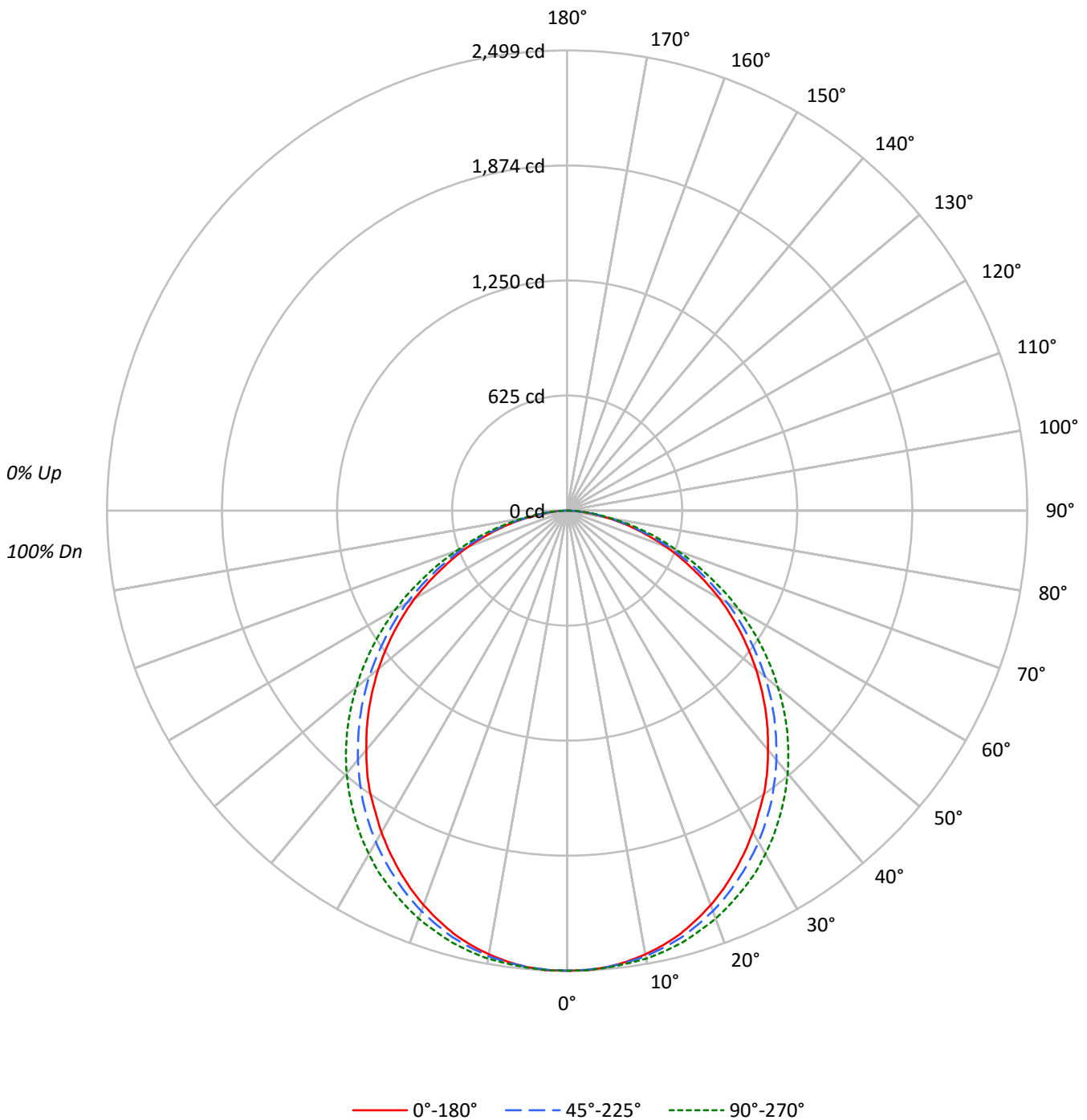
Lumens per Lamp: N/A  
Luminaire Lumens: 6785.7 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76		82	78	74		79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	67	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47		58	52	47		57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42		53	46	41		51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3362	3362	3362
5°	3361	3361	3365
10°	3344	3358	3376
15°	3314	3343	3381
20°	3265	3314	3377
25°	3203	3274	3365
30°	3134	3230	3346
35°	3067	3173	3313
40°	2980	3106	3273
45°	2897	3027	3215
50°	2801	2937	3129
55°	2690	2826	3027
60°	2572	2710	2902
65°	2401	2543	2717
70°	2229	2350	2511
75°	1987	2094	2271
80°	1666	1746	1905
85°	1264	1264	1423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.5	3.5
10°-20°	676.6	10.0
20°-30°	1017.4	15.0
30°-40°	1210.3	17.8
40°-50°	1231.5	18.1
50°-60°	1083.8	16.0
60°-70°	795.0	11.7
70°-80°	431.5	6.4
80°-90°	103.0	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°	1930.5	28.4
0°-40°	3140.8	46.3
0°-60°	5456.1	80.4
0°-90°	6785.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6785.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2499	2499	2499	2499	2499	
5°	2488	2485	2488	2488	2492	236
15°	2379	2382	2400	2413	2427	670
25°	2157	2171	2205	2243	2266	994
35°	1867	1881	1932	1990	2017	1166
45°	1522	1536	1591	1659	1690	1174
55°	1147	1164	1205	1263	1290	1026
65°	754	768	799	833	853	750
75°	382	389	403	423	437	406
85°	82	82	82	89	92	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2498.6	2498.6	2498.6	2498.6	2498.6
2.5°	2498.6	2495.1	2495.1	2495.1	2498.6
5°	2488.3	2484.9	2488.3	2488.3	2491.7
7.5°	2471.2	2467.8	2474.7	2478.1	2481.5
10°	2447.4	2447.4	2457.6	2464.4	2471.2
12.5°	2416.6	2420.0	2430.3	2440.5	2450.8
15°	2379.1	2382.5	2399.6	2413.2	2426.9
17.5°	2331.3	2338.1	2358.6	2379.1	2392.7
20°	2280.1	2290.3	2314.2	2341.5	2358.6
22.5°	2222.1	2235.7	2263.0	2297.2	2314.2
25°	2157.2	2170.9	2205.0	2242.6	2266.4
27.5°	2089.0	2106.0	2143.6	2187.9	2215.2
30°	2017.3	2034.3	2078.7	2126.5	2153.8
32.5°	1938.8	1959.2	2007.0	2061.6	2089.0
35°	1867.1	1880.7	1931.9	1990.0	2017.3
37.5°	1785.2	1802.2	1850.0	1911.5	1942.2
40°	1696.4	1713.5	1768.1	1829.5	1863.7
42.5°	1611.1	1624.7	1679.4	1747.6	1778.3
45°	1522.3	1536.0	1590.6	1658.9	1689.6
47.5°	1430.2	1447.2	1498.4	1563.3	1594.0
50°	1338.0	1351.7	1402.9	1464.3	1495.0
52.5°	1242.4	1256.1	1303.9	1365.3	1396.0
55°	1146.9	1163.9	1204.9	1262.9	1290.2
57.5°	1051.3	1068.4	1105.9	1160.5	1184.4
60°	955.7	969.4	1006.9	1054.7	1078.6
62.5°	853.3	863.6	901.1	948.9	969.4
65°	754.3	768.0	798.7	832.9	853.3
67.5°	662.2	669.0	696.3	733.9	747.5
70°	566.6	573.4	597.3	628.1	638.3
72.5°	471.0	481.3	498.3	525.7	539.3
75°	382.3	389.1	402.8	423.3	436.9
77.5°	297.0	300.4	310.6	327.7	337.9
80°	215.0	218.5	225.3	238.9	245.8
82.5°	143.4	146.8	150.2	157.0	163.8
85°	81.9	81.9	81.9	88.7	92.2
87.5°	30.7	27.3	27.3	27.3	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)