

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: P385381

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

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385381  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-70-L850-CNV  
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

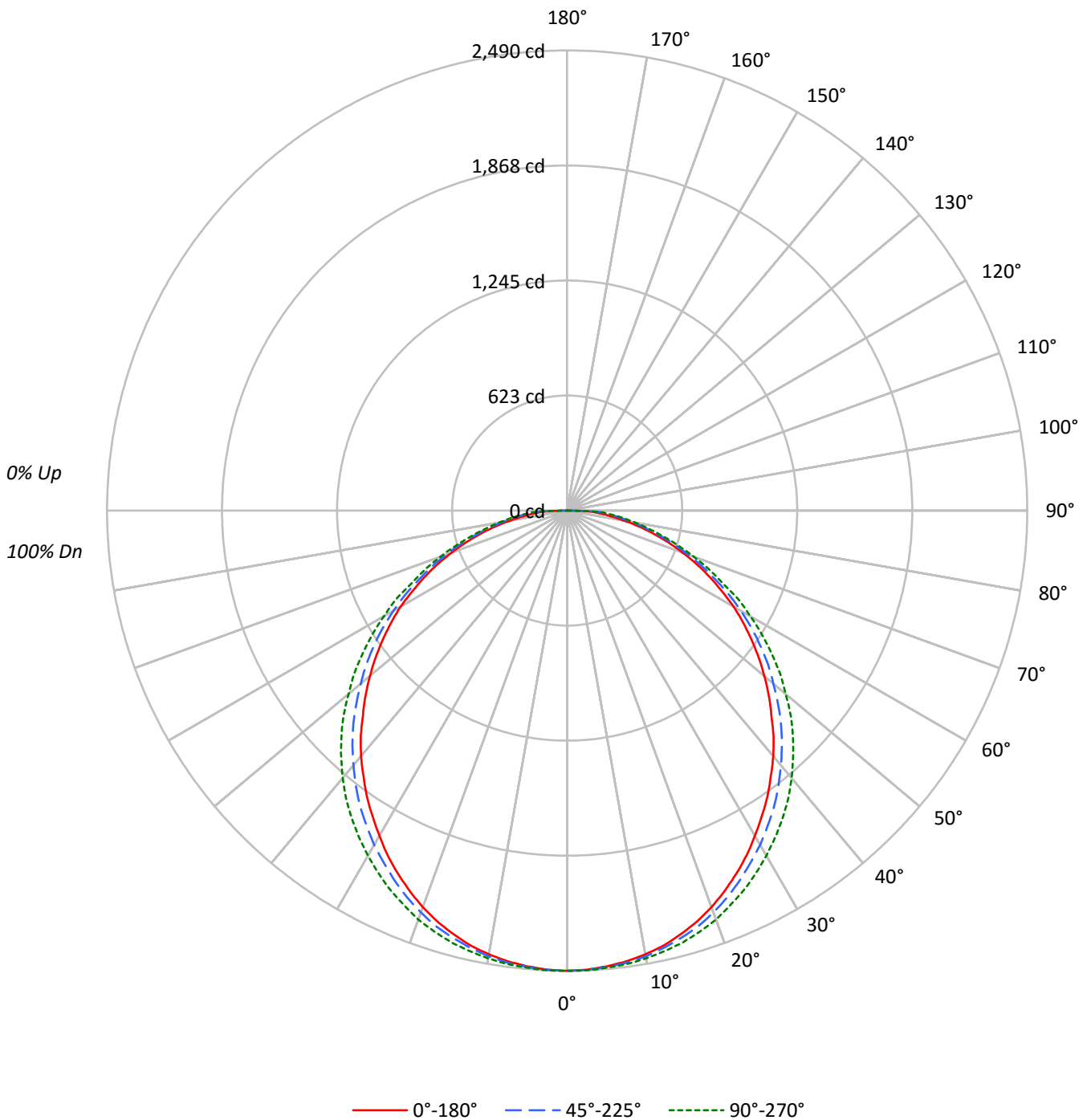
Lumens per Lamp: N/A  
Luminaire Lumens: 7222.7 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 65.7  
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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	3351	3351	3351
5°	3331	3323	3329
10°	3306	3294	3313
15°	3270	3256	3296
20°	3221	3210	3273
25°	3156	3149	3237
30°	3083	3087	3196
35°	3015	3021	3154
40°	2945	2942	3102
45°	2854	2863	3035
50°	2779	2760	2939
55°	2694	2660	2835
60°	2611	2533	2694
65°	2492	2372	2506
70°	2347	2200	2333
75°	2180	2012	2130
80°	1954	1822	1956
85°	1846	1731	1871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.6	3.3
10°-20°	675.2	9.3
20°-30°	1019.0	14.1
30°-40°	1223.1	16.9
40°-50°	1265.8	17.5
50°-60°	1146.7	15.9
60°-70°	883.5	12.2
70°-80°	546.7	7.6
80°-90°	227.1	3.1
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°	1929.9	26.7
0°-40°	3152.9	43.7
0°-60°	5565.5	77.1
0°-90°	7222.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7222.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2490	2490	2490	2490	2490	
5°	2475	2475	2479	2479	2483	235
15°	2374	2378	2393	2408	2419	669
25°	2167	2175	2208	2246	2265	998
35°	1889	1904	1953	2006	2032	1181
45°	1562	1585	1638	1698	1728	1208
55°	1217	1236	1277	1333	1352	1090
65°	853	860	886	924	928	843
75°	484	496	515	537	537	513
85°	176	195	225	240	237	191
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2490.2	2490.2	2490.2	2490.2	2490.2
2.5°	2486.5	2486.5	2486.5	2486.5	2490.2
5°	2475.2	2475.2	2479.0	2479.0	2482.7
7.5°	2460.2	2460.2	2467.7	2467.7	2475.2
10°	2437.7	2441.4	2448.9	2452.7	2460.2
12.5°	2411.4	2411.4	2422.6	2433.9	2441.4
15°	2373.8	2377.6	2392.6	2407.6	2418.9
17.5°	2332.5	2336.2	2358.8	2373.8	2388.8
20°	2283.7	2287.4	2313.7	2336.2	2355.0
22.5°	2227.3	2234.8	2264.9	2294.9	2310.0
25°	2167.2	2174.7	2208.5	2246.1	2264.9
27.5°	2103.4	2114.6	2148.4	2189.8	2212.3
30°	2032.0	2047.0	2088.3	2133.4	2156.0
32.5°	1960.6	1975.7	2020.7	2073.3	2095.9
35°	1889.3	1904.3	1953.1	2005.7	2032.0
37.5°	1810.4	1825.4	1878.0	1934.3	1964.4
40°	1735.3	1750.3	1799.1	1863.0	1889.3
42.5°	1652.6	1667.7	1720.3	1780.4	1810.4
45°	1562.5	1585.0	1637.6	1697.7	1727.8
47.5°	1479.9	1498.7	1547.5	1611.3	1641.4
50°	1393.5	1412.3	1457.3	1521.2	1543.7
52.5°	1307.1	1325.9	1370.9	1431.0	1453.6
55°	1217.0	1235.7	1277.0	1333.4	1352.2
57.5°	1130.6	1145.6	1183.1	1235.7	1250.8
60°	1040.4	1055.4	1085.5	1134.3	1145.6
62.5°	942.8	954.0	987.8	1032.9	1047.9
65°	852.6	860.1	886.4	924.0	927.7
67.5°	758.7	766.2	792.5	818.8	830.1
70°	664.8	676.1	694.9	721.2	728.7
72.5°	574.7	585.9	604.7	627.3	631.0
75°	484.5	495.8	514.6	537.1	537.1
77.5°	398.1	409.4	431.9	450.7	450.7
80°	311.7	330.5	353.1	371.8	371.8
82.5°	240.4	255.4	285.5	300.5	300.5
85°	176.5	195.3	225.4	240.4	236.6
87.5°	127.7	146.5	172.8	184.0	180.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)