

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: P384041

Luminaire Tested: **24ID-75-L850-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-75-L850-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

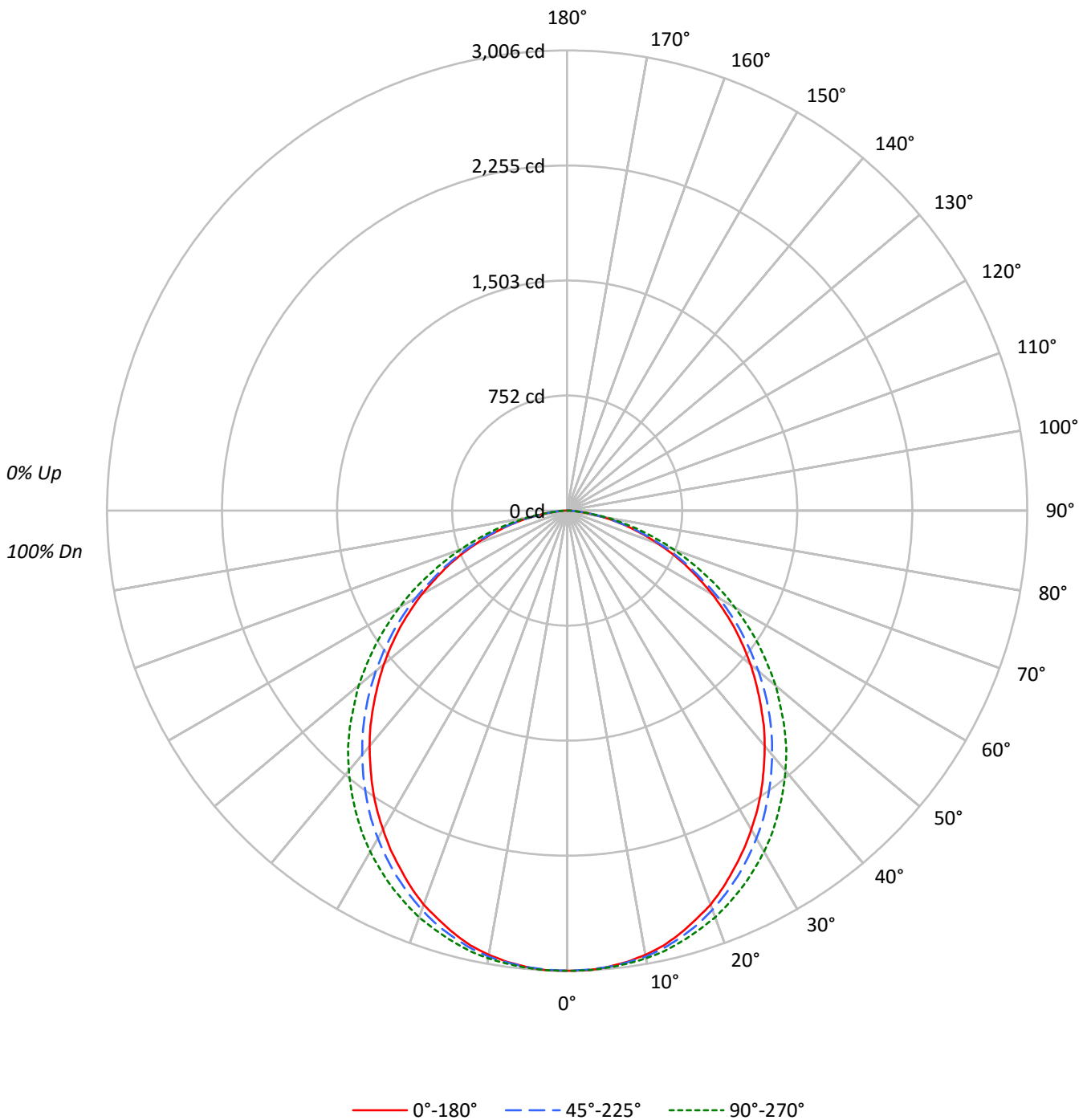
Lumens per Lamp: N/A
Luminaire Lumens: 7935.4 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.8
Input Voltage (V): NR
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: 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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4045	4045	4045
5°	4044	4044	4049
10°	4026	4042	4058
15°	3982	4016	4054
20°	3923	3974	4048
25°	3831	3914	4026
30°	3737	3842	3997
35°	3638	3755	3951
40°	3527	3659	3897
45°	3397	3549	3821
50°	3271	3413	3720
55°	3125	3265	3582
60°	2953	3082	3402
65°	2747	2836	3177
70°	2487	2581	2910
75°	2170	2253	2543
80°	1756	1787	2003
85°	1044	1166	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	3.6
10°-20°	813.4	10.2
20°-30°	1216.7	15.3
30°-40°	1437.5	18.1
40°-50°	1450.5	18.3
50°-60°	1259.7	15.9
60°-70°	903.3	11.4
70°-80°	470.6	5.9
80°-90°	99.3	1.3
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°	2314.6	29.2
0°-40°	3752.1	47.3
0°-60°	6462.2	81.4
0°-90°	7935.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7935.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3006	3006	3006	3006	3006	
5°	2994	2990	2994	2994	2998	284
15°	2859	2863	2883	2903	2911	806
25°	2581	2596	2636	2688	2712	1189
35°	2215	2231	2286	2370	2406	1385
45°	1785	1805	1865	1960	2008	1379
55°	1332	1344	1392	1483	1527	1190
65°	863	859	891	958	998	853
75°	418	414	433	465	489	445
85°	68	76	76	68	64	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3006.0	3006.0	3006.0	3006.0	3006.0
2.5°	3006.0	3002.1	3002.1	3002.1	3006.0
5°	2994.1	2990.1	2994.1	2994.1	2998.1
7.5°	2974.2	2970.2	2978.2	2982.2	2986.2
10°	2946.4	2946.4	2958.3	2966.3	2970.2
12.5°	2910.6	2910.6	2926.5	2938.4	2946.4
15°	2858.9	2862.9	2882.8	2902.7	2910.6
17.5°	2799.3	2811.2	2835.1	2862.9	2870.8
20°	2739.6	2747.6	2775.4	2811.2	2827.1
22.5°	2664.1	2676.0	2707.8	2755.5	2771.4
25°	2580.6	2596.5	2636.2	2687.9	2711.8
27.5°	2497.1	2509.0	2556.7	2616.4	2644.2
30°	2405.6	2421.5	2473.2	2540.8	2572.6
32.5°	2314.2	2326.1	2385.7	2457.3	2493.1
35°	2214.8	2230.7	2286.3	2369.8	2405.6
37.5°	2111.4	2131.3	2186.9	2274.4	2314.2
40°	2008.0	2019.9	2083.5	2171.0	2218.7
42.5°	1900.6	1916.5	1976.2	2071.6	2119.3
45°	1785.3	1805.2	1864.9	1960.3	2008.0
47.5°	1674.0	1693.9	1749.5	1845.0	1888.7
50°	1562.7	1574.6	1630.3	1725.7	1777.4
52.5°	1447.3	1459.3	1511.0	1602.4	1650.1
55°	1332.0	1344.0	1391.7	1483.1	1526.9
57.5°	1212.8	1220.7	1268.4	1351.9	1395.7
60°	1097.4	1101.4	1145.2	1220.7	1264.4
62.5°	974.2	978.2	1010.0	1097.4	1137.2
65°	862.8	858.9	890.7	958.3	998.0
67.5°	747.5	747.5	775.4	835.0	866.8
70°	632.2	632.2	656.1	707.8	739.6
72.5°	524.9	524.9	544.7	584.5	608.4
75°	417.5	413.5	433.4	465.2	489.1
77.5°	318.1	318.1	326.1	353.9	369.8
80°	226.6	226.6	230.6	246.5	258.5
82.5°	143.1	143.1	143.1	151.1	155.1
85°	67.6	75.5	75.5	67.6	63.6
87.5°	31.8	31.8	27.8	27.8	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)