

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: P383881

Luminaire Tested: **24ID-85-L850-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383881
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-85-L850-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

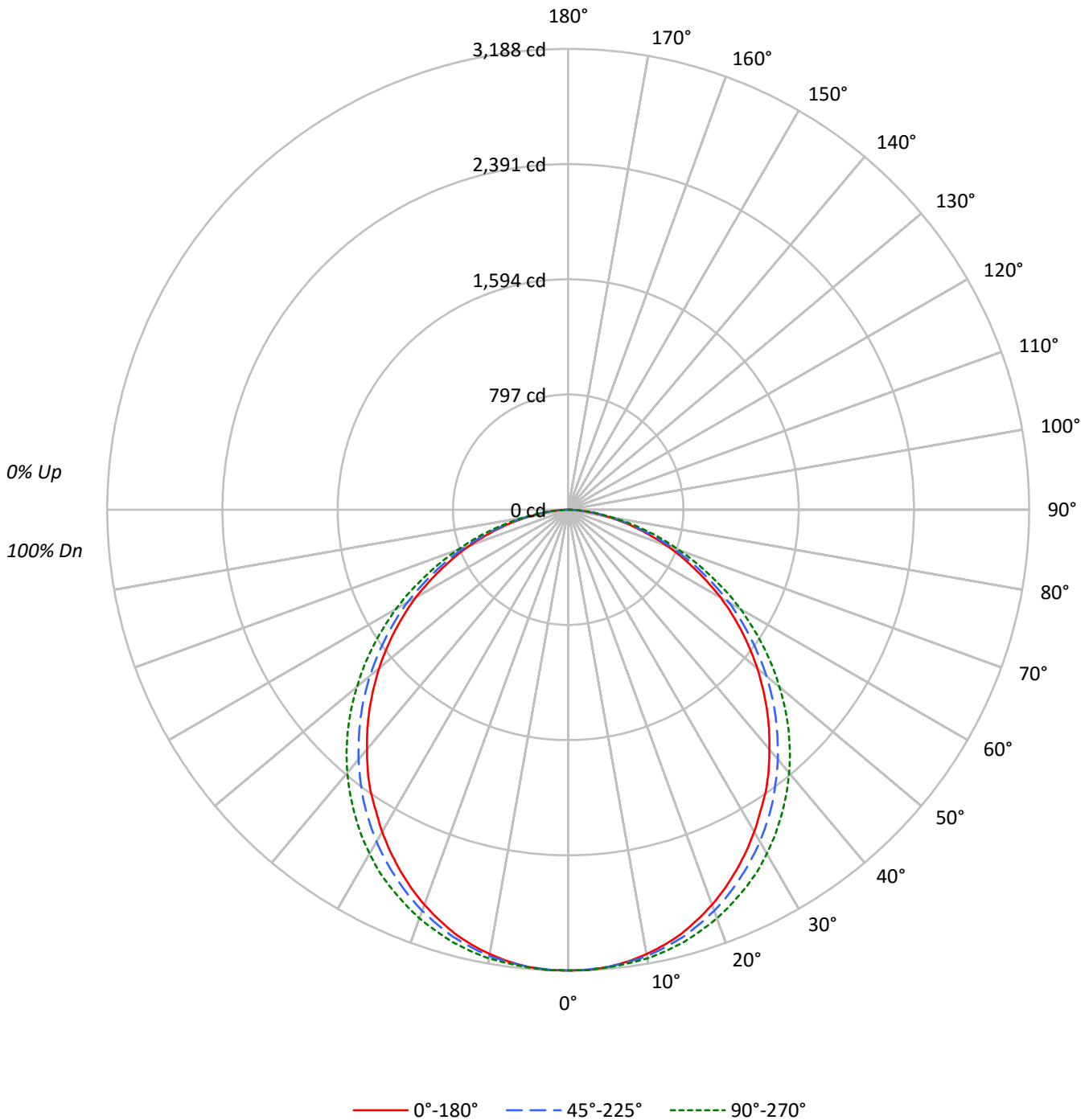
Lumens per Lamp: N/A
Luminaire Lumens: 8656.8 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.4
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°	4289	4289	4289
5°	4287	4287	4293
10°	4266	4284	4307
15°	4228	4264	4313
20°	4165	4227	4308
25°	4086	4176	4293
30°	3998	4120	4269
35°	3912	4048	4227
40°	3801	3962	4176
45°	3695	3861	4102
50°	3573	3746	3992
55°	3432	3606	3861
60°	3281	3457	3703
65°	3064	3244	3466
70°	2843	2998	3203
75°	2535	2671	2898
80°	2125	2227	2429
85°	1613	1613	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.7	3.5
10°-20°	863.2	10.0
20°-30°	1297.9	15.0
30°-40°	1544.0	17.8
40°-50°	1571.1	18.1
50°-60°	1382.7	16.0
60°-70°	1014.3	11.7
70°-80°	550.5	6.4
80°-90°	131.4	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°	2462.8	28.4
0°-40°	4006.9	46.3
0°-60°	6960.6	80.4
0°-90°	8656.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8656.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3188	3188	3188	3188	3188	
5°	3174	3170	3174	3174	3179	301
15°	3035	3040	3061	3079	3096	855
25°	2752	2770	2813	2861	2891	1268
35°	2382	2399	2465	2539	2574	1487
45°	1942	1960	2029	2116	2156	1497
55°	1463	1485	1537	1611	1646	1308
65°	962	980	1019	1062	1089	956
75°	488	496	514	540	557	518
85°	104	104	104	113	118	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3187.5	3187.5	3187.5	3187.5	3187.5
2.5°	3187.5	3183.2	3183.2	3183.2	3187.5
5°	3174.4	3170.1	3174.4	3174.4	3178.8
7.5°	3152.7	3148.3	3157.0	3161.4	3165.7
10°	3122.2	3122.2	3135.3	3144.0	3152.7
12.5°	3083.0	3087.4	3100.4	3113.5	3126.5
15°	3035.1	3039.5	3061.2	3078.6	3096.1
17.5°	2974.1	2982.8	3009.0	3035.1	3052.5
20°	2908.8	2921.9	2952.4	2987.2	3009.0
22.5°	2834.8	2852.2	2887.0	2930.6	2952.4
25°	2752.1	2769.5	2813.0	2860.9	2891.4
27.5°	2665.0	2686.7	2734.6	2791.2	2826.1
30°	2573.5	2595.3	2651.9	2712.9	2747.7
32.5°	2473.4	2499.5	2560.5	2630.1	2665.0
35°	2381.9	2399.3	2464.7	2538.7	2573.5
37.5°	2277.4	2299.2	2360.1	2438.5	2477.7
40°	2164.2	2186.0	2255.6	2334.0	2377.6
42.5°	2055.3	2072.7	2142.4	2229.5	2268.7
45°	1942.1	1959.5	2029.2	2116.3	2155.5
47.5°	1824.5	1846.3	1911.6	1994.4	2033.6
50°	1707.0	1724.4	1789.7	1868.1	1907.3
52.5°	1585.0	1602.5	1663.4	1741.8	1781.0
55°	1463.1	1484.9	1537.1	1611.2	1646.0
57.5°	1341.2	1363.0	1410.9	1480.5	1511.0
60°	1219.3	1236.7	1284.6	1345.5	1376.0
62.5°	1088.6	1101.7	1149.6	1210.6	1236.7
65°	962.3	979.8	1019.0	1062.5	1088.6
67.5°	844.8	853.5	888.3	936.2	953.6
70°	722.8	731.6	762.0	801.2	814.3
72.5°	600.9	614.0	635.8	670.6	688.0
75°	487.7	496.4	513.8	540.0	557.4
77.5°	378.8	383.2	396.3	418.0	431.1
80°	274.3	278.7	287.4	304.8	313.5
82.5°	182.9	187.2	191.6	200.3	209.0
85°	104.5	104.5	104.5	113.2	117.6
87.5°	39.2	34.8	34.8	34.8	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)