

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: P383875

Luminaire Tested: **24ID-80-L835-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383875
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-80-L835-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

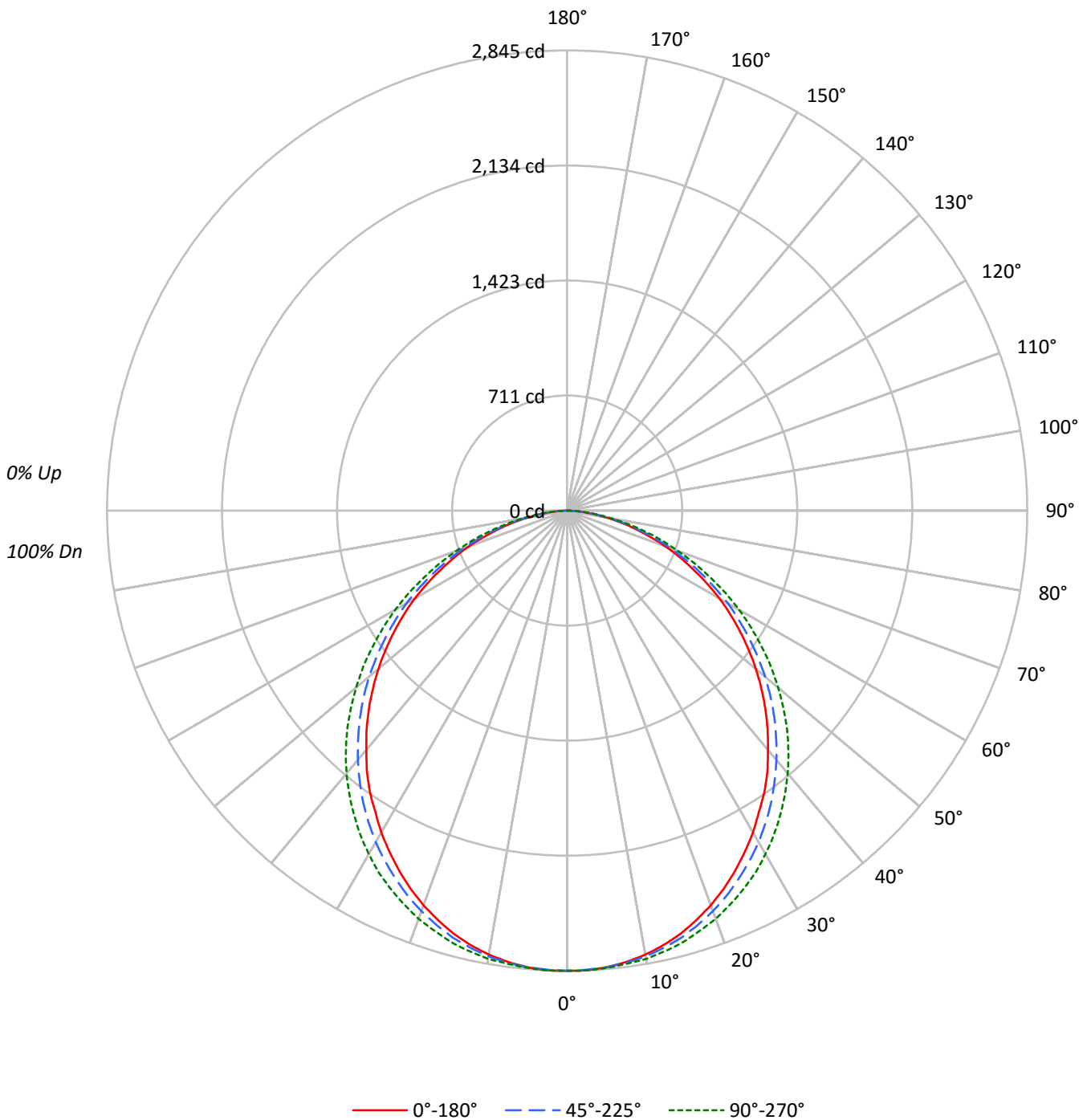
Lumens per Lamp: N/A
Luminaire Lumens: 7727.2 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 77
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	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°	3828	3828	3828
5°	3827	3827	3832
10°	3808	3824	3845
15°	3774	3806	3850
20°	3718	3773	3846
25°	3647	3728	3832
30°	3569	3678	3810
35°	3492	3614	3773
40°	3393	3536	3728
45°	3299	3447	3661
50°	3189	3344	3564
55°	3064	3219	3447
60°	2929	3085	3305
65°	2735	2896	3094
70°	2538	2676	2860
75°	2263	2385	2586
80°	1898	1987	2169
85°	1440	1440	1619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.3	3.5
10°-20°	770.5	10.0
20°-30°	1158.6	15.0
30°-40°	1378.2	17.8
40°-50°	1402.4	18.1
50°-60°	1234.2	16.0
60°-70°	905.3	11.7
70°-80°	491.4	6.4
80°-90°	117.3	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°	2198.4	28.4
0°-40°	3576.6	46.3
0°-60°	6213.2	80.4
0°-90°	7727.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7727.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2845	2845	2845	2845	2845	
5°	2834	2830	2834	2834	2837	269
15°	2709	2713	2732	2748	2764	763
25°	2456	2472	2511	2554	2581	1131
35°	2126	2142	2200	2266	2297	1328
45°	1734	1749	1811	1889	1924	1336
55°	1306	1325	1372	1438	1469	1168
65°	859	875	910	948	972	854
75°	435	443	459	482	498	463
85°	93	93	93	101	105	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2845.2	2845.2	2845.2	2845.2	2845.2
2.5°	2845.2	2841.3	2841.3	2841.3	2845.2
5°	2833.6	2829.7	2833.6	2833.6	2837.4
7.5°	2814.1	2810.2	2818.0	2821.9	2825.8
10°	2786.9	2786.9	2798.6	2806.3	2814.1
12.5°	2751.9	2755.8	2767.5	2779.1	2790.8
15°	2709.2	2713.1	2732.5	2748.0	2763.6
17.5°	2654.8	2662.5	2685.9	2709.2	2724.7
20°	2596.5	2608.1	2635.3	2666.4	2685.9
22.5°	2530.4	2545.9	2577.0	2615.9	2635.3
25°	2456.5	2472.1	2510.9	2553.7	2580.9
27.5°	2378.8	2398.2	2441.0	2491.5	2522.6
30°	2297.2	2316.6	2367.1	2421.5	2452.6
32.5°	2207.8	2231.1	2285.5	2347.7	2378.8
35°	2126.1	2141.7	2200.0	2266.1	2297.2
37.5°	2032.9	2052.3	2106.7	2176.7	2211.7
40°	1931.8	1951.2	2013.4	2083.4	2122.3
42.5°	1834.6	1850.2	1912.4	1990.1	2025.1
45°	1733.6	1749.1	1811.3	1889.0	1924.0
47.5°	1628.6	1648.1	1706.4	1780.2	1815.2
50°	1523.7	1539.2	1597.5	1667.5	1702.5
52.5°	1414.8	1430.4	1484.8	1554.8	1589.7
55°	1306.0	1325.4	1372.1	1438.2	1469.3
57.5°	1197.2	1216.6	1259.4	1321.5	1348.8
60°	1088.3	1103.9	1146.6	1201.1	1228.3
62.5°	971.7	983.4	1026.1	1080.6	1103.9
65°	859.0	874.6	909.5	948.4	971.7
67.5°	754.1	761.8	792.9	835.7	851.2
70°	645.2	653.0	680.2	715.2	726.9
72.5°	536.4	548.1	567.5	598.6	614.1
75°	435.3	443.1	458.7	482.0	497.5
77.5°	338.2	342.0	353.7	373.1	384.8
80°	244.9	248.8	256.5	272.1	279.9
82.5°	163.3	167.1	171.0	178.8	186.6
85°	93.3	93.3	93.3	101.1	104.9
87.5°	35.0	31.1	31.1	31.1	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)