

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: P383883

Luminaire Tested: **24ID-90-L835-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383883
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-90-L835-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

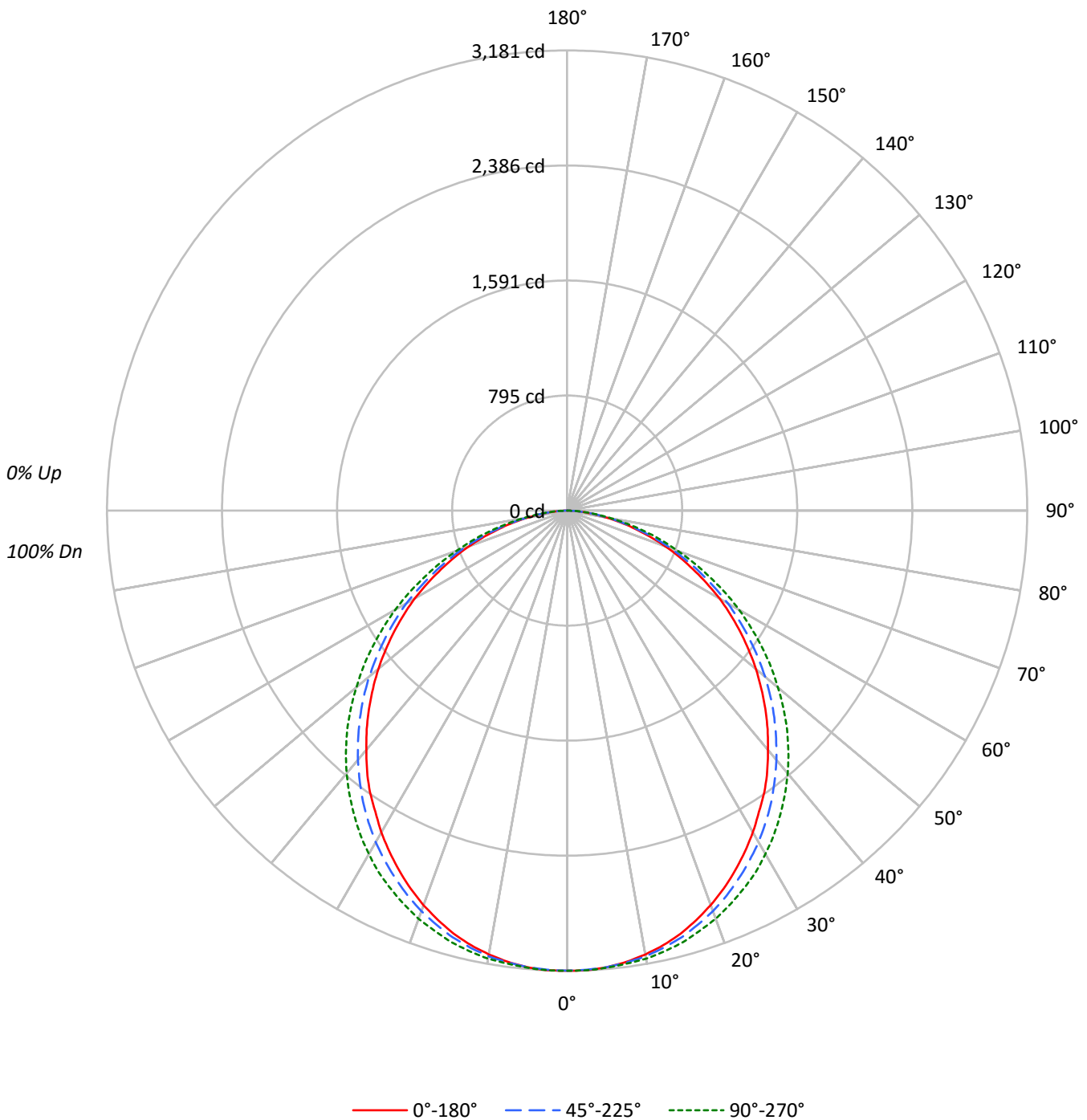
Lumens per Lamp: N/A
Luminaire Lumens: 8638.6 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 87.3
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°	4280	4280	4280
5°	4279	4279	4284
10°	4257	4275	4298
15°	4219	4255	4304
20°	4156	4218	4299
25°	4077	4167	4283
30°	3990	4111	4260
35°	3904	4040	4218
40°	3793	3954	4167
45°	3688	3853	4093
50°	3566	3738	3984
55°	3425	3598	3853
60°	3274	3450	3695
65°	3057	3237	3458
70°	2838	2991	3197
75°	2530	2666	2891
80°	2122	2222	2424
85°	1610	1610	1811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.1	3.5
10°-20°	861.4	10.0
20°-30°	1295.2	15.0
30°-40°	1540.8	17.8
40°-50°	1567.8	18.1
50°-60°	1379.8	16.0
60°-70°	1012.1	11.7
70°-80°	549.4	6.4
80°-90°	131.1	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°	2457.7	28.4
0°-40°	3998.5	46.3
0°-60°	6946.0	80.4
0°-90°	8638.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8638.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3181	3181	3181	3181	3181	
5°	3168	3163	3168	3168	3172	301
15°	3029	3033	3055	3072	3090	853
25°	2746	2764	2807	2855	2885	1265
35°	2377	2394	2460	2533	2568	1484
45°	1938	1955	2025	2112	2151	1494
55°	1460	1482	1534	1608	1642	1306
65°	960	978	1017	1060	1086	954
75°	487	495	513	539	556	517
85°	104	104	104	113	117	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3180.8	3180.8	3180.8	3180.8	3180.8
2.5°	3180.8	3176.5	3176.5	3176.5	3180.8
5°	3167.8	3163.4	3167.8	3167.8	3172.1
7.5°	3146.0	3141.7	3150.4	3154.7	3159.1
10°	3115.6	3115.6	3128.7	3137.4	3146.0
12.5°	3076.5	3080.9	3093.9	3106.9	3120.0
15°	3028.7	3033.1	3054.8	3072.2	3089.6
17.5°	2967.9	2976.6	3002.6	3028.7	3046.1
20°	2902.7	2915.7	2946.2	2980.9	3002.6
22.5°	2828.8	2846.2	2881.0	2924.4	2946.2
25°	2746.3	2763.6	2807.1	2854.9	2885.3
27.5°	2659.4	2681.1	2728.9	2785.4	2820.1
30°	2568.1	2589.8	2646.3	2707.2	2741.9
32.5°	2468.2	2494.2	2555.1	2624.6	2659.4
35°	2376.9	2394.3	2459.5	2533.3	2568.1
37.5°	2272.6	2294.4	2355.2	2433.4	2472.5
40°	2159.6	2181.4	2250.9	2329.1	2372.6
42.5°	2051.0	2068.4	2137.9	2224.8	2263.9
45°	1938.0	1955.4	2024.9	2111.8	2151.0
47.5°	1820.7	1842.4	1907.6	1990.2	2029.3
50°	1703.4	1720.8	1785.9	1864.2	1903.3
52.5°	1581.7	1599.1	1659.9	1738.1	1777.3
55°	1460.0	1481.8	1533.9	1607.8	1642.5
57.5°	1338.4	1360.1	1407.9	1477.4	1507.8
60°	1216.7	1234.1	1281.9	1342.7	1373.1
62.5°	1086.3	1099.4	1147.2	1208.0	1234.1
65°	960.3	977.7	1016.8	1060.3	1086.3
67.5°	843.0	851.7	886.5	934.3	951.6
70°	721.3	730.0	760.4	799.5	812.6
72.5°	599.7	612.7	634.4	669.2	686.6
75°	486.7	495.4	512.8	538.8	556.2
77.5°	378.0	382.4	395.4	417.2	430.2
80°	273.8	278.1	286.8	304.2	312.9
82.5°	182.5	186.9	191.2	199.9	208.6
85°	104.3	104.3	104.3	113.0	117.3
87.5°	39.1	34.8	34.8	34.8	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)