

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: P383772

Luminaire Tested: **14ID-85-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383772
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: 14ID-85-L840-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

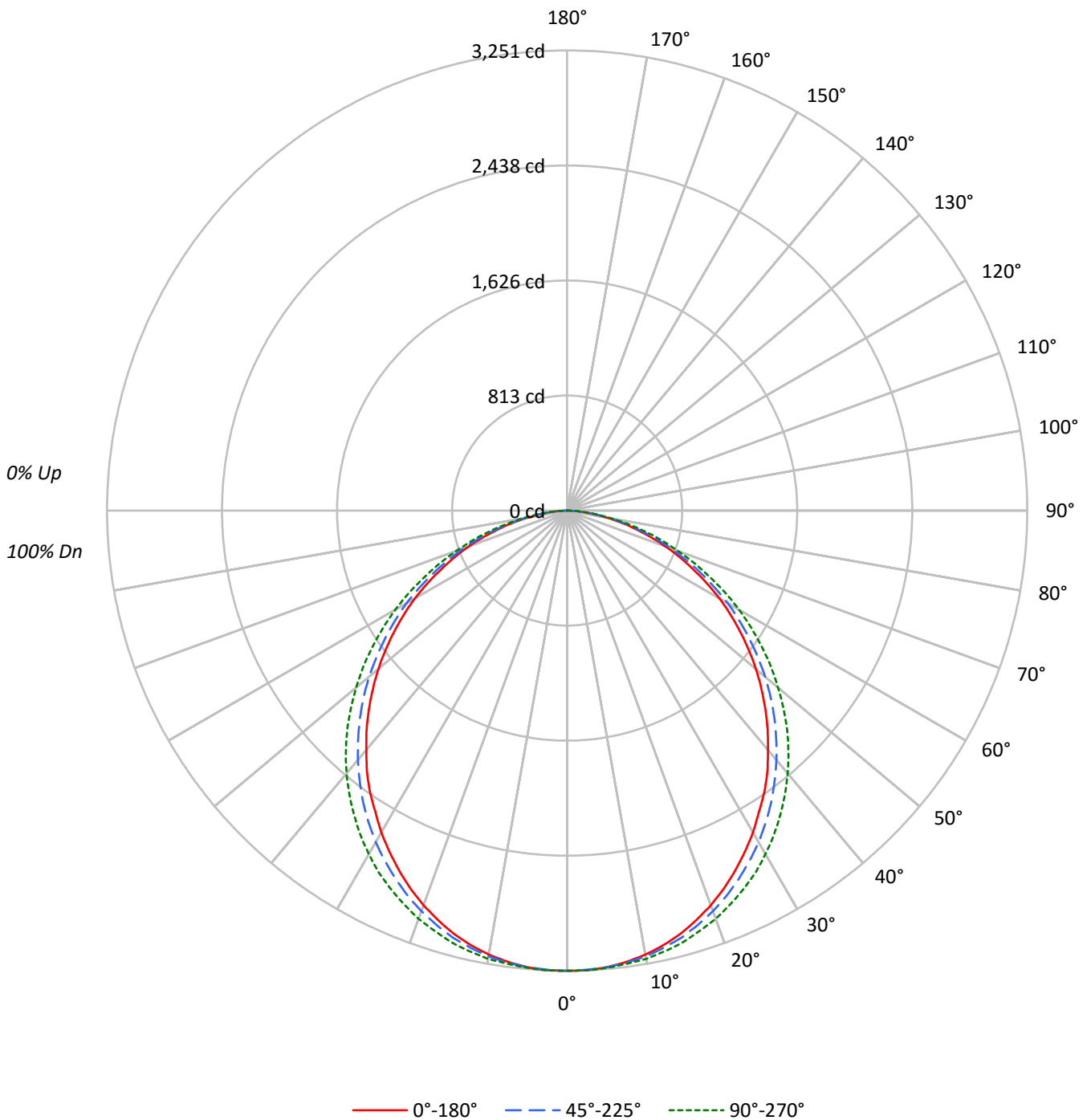
Lumens per Lamp: N/A
Luminaire Lumens: 8829.9 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 83.3
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°	8749	8749	8749
5°	8746	8746	8759
10°	8702	8738	8787
15°	8625	8699	8798
20°	8497	8624	8789
25°	8335	8519	8757
30°	8157	8405	8708
35°	7981	8258	8623
40°	7755	8082	8519
45°	7539	7877	8367
50°	7289	7642	8144
55°	7002	7356	7877
60°	6693	7052	7554
65°	6250	6618	7070
70°	5801	6116	6535
75°	5173	5449	5911
80°	4336	4542	4956
85°	3291	3291	3702



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.7	3.5
10°-20°	880.5	10.0
20°-30°	1323.9	15.0
30°-40°	1574.9	17.8
40°-50°	1602.5	18.1
50°-60°	1410.3	16.0
60°-70°	1034.6	11.7
70°-80°	561.5	6.4
80°-90°	134.0	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°	2512.1	28.4
0°-40°	4087.0	46.3
0°-60°	7099.8	80.4
0°-90°	8829.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8829.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3251	3251	3251	3251	3251	
5°	3238	3234	3238	3238	3242	307
15°	3096	3100	3122	3140	3158	872
25°	2807	2825	2869	2918	2949	1293
35°	2430	2447	2514	2589	2625	1517
45°	1981	1999	2070	2159	2199	1527
55°	1492	1515	1568	1643	1679	1335
65°	982	999	1039	1084	1110	976
75°	498	506	524	551	568	529
85°	107	107	107	116	120	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3251.2	3251.2	3251.2	3251.2	3251.2
2.5°	3251.2	3246.8	3246.8	3246.8	3251.2
5°	3237.9	3233.5	3237.9	3237.9	3242.4
7.5°	3215.7	3211.3	3220.2	3224.6	3229.0
10°	3184.6	3184.6	3197.9	3206.8	3215.7
12.5°	3144.6	3149.1	3162.4	3175.7	3189.1
15°	3095.8	3100.2	3122.4	3140.2	3158.0
17.5°	3033.6	3042.5	3069.1	3095.8	3113.6
20°	2967.0	2980.3	3011.4	3046.9	3069.1
22.5°	2891.5	2909.2	2944.8	2989.2	3011.4
25°	2807.1	2824.8	2869.3	2918.1	2949.2
27.5°	2718.3	2740.5	2789.3	2847.1	2882.6
30°	2625.0	2647.2	2704.9	2767.1	2802.6
32.5°	2522.8	2549.5	2611.7	2682.7	2718.3
35°	2429.5	2447.3	2513.9	2589.4	2625.0
37.5°	2323.0	2345.2	2407.3	2487.3	2527.3
40°	2207.5	2229.7	2300.7	2380.7	2425.1
42.5°	2096.4	2114.2	2185.3	2274.1	2314.1
45°	1980.9	1998.7	2069.8	2158.6	2198.6
47.5°	1861.0	1883.2	1949.9	2034.2	2074.2
50°	1741.1	1758.9	1825.5	1905.4	1945.4
52.5°	1616.7	1634.5	1696.7	1776.6	1816.6
55°	1492.4	1514.6	1567.9	1643.4	1678.9
57.5°	1368.0	1390.2	1439.1	1510.1	1541.2
60°	1243.6	1261.4	1310.3	1372.5	1403.5
62.5°	1110.4	1123.7	1172.6	1234.8	1261.4
65°	981.6	999.4	1039.3	1083.7	1110.4
67.5°	861.7	870.6	906.1	954.9	972.7
70°	737.3	746.2	777.3	817.3	830.6
72.5°	612.9	626.3	648.5	684.0	701.8
75°	497.5	506.3	524.1	550.8	568.5
77.5°	386.4	390.9	404.2	426.4	439.7
80°	279.8	284.3	293.1	310.9	319.8
82.5°	186.5	191.0	195.4	204.3	213.2
85°	106.6	106.6	106.6	115.5	119.9
87.5°	40.0	35.5	35.5	35.5	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)