

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: P383876

Luminaire Tested: **24ID-80-L840-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383876
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-L840-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

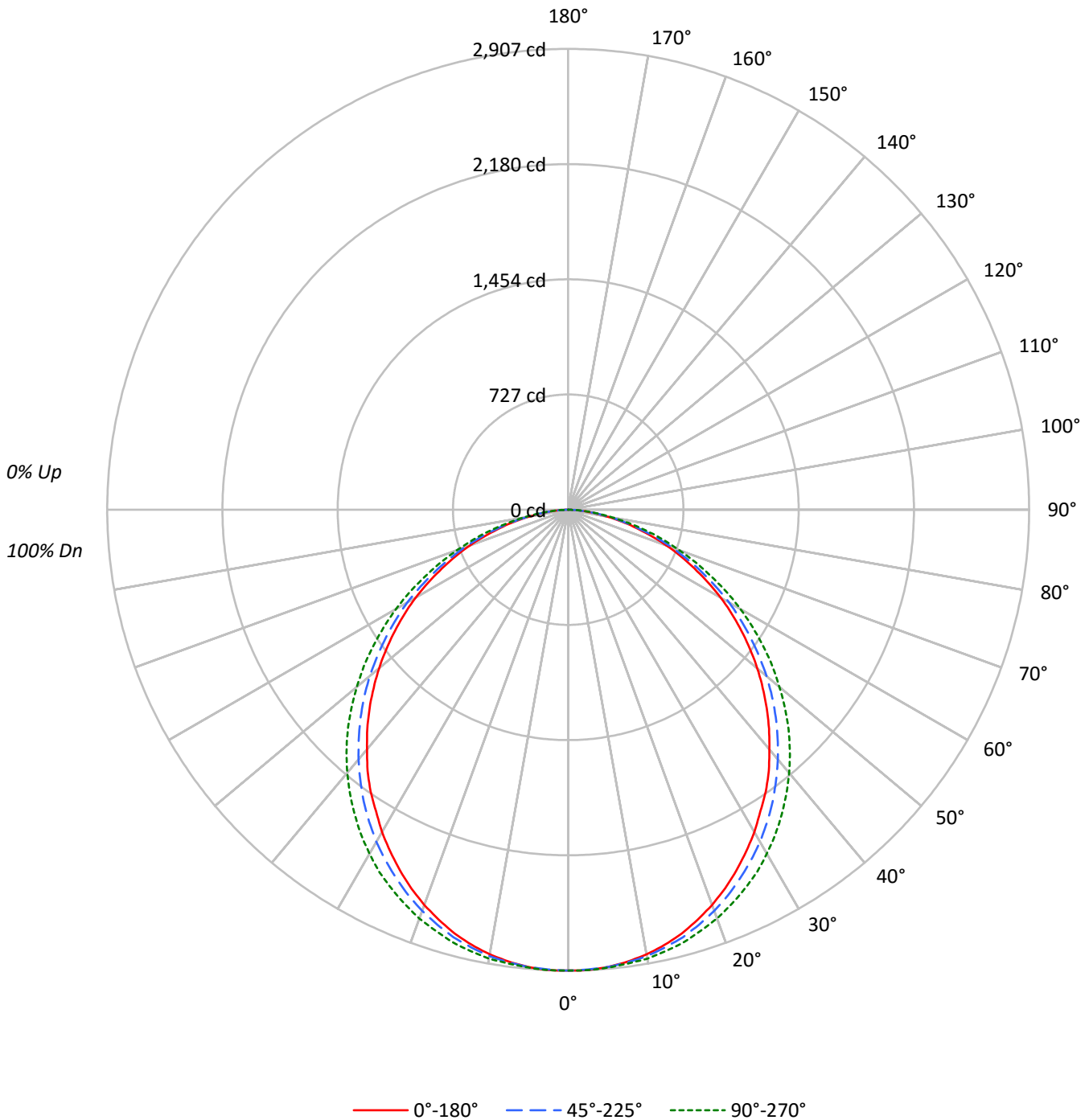
Lumens per Lamp: N/A
Luminaire Lumens: 7895.4 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3912	3912	3912
5°	3910	3910	3916
10°	3891	3907	3929
15°	3856	3889	3933
20°	3799	3856	3929
25°	3726	3809	3915
30°	3647	3758	3893
35°	3568	3692	3855
40°	3467	3613	3809
45°	3370	3522	3741
50°	3259	3417	3641
55°	3130	3289	3521
60°	2992	3153	3377
65°	2794	2959	3161
70°	2594	2734	2922
75°	2312	2436	2643
80°	1939	2031	2215
85°	1471	1471	1655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.2	3.5
10°-20°	787.3	10.0
20°-30°	1183.8	15.0
30°-40°	1408.2	17.8
40°-50°	1432.9	18.1
50°-60°	1261.1	16.0
60°-70°	925.1	11.7
70°-80°	502.1	6.4
80°-90°	119.8	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°	2246.2	28.4
0°-40°	3654.5	46.3
0°-60°	6348.4	80.4
0°-90°	7895.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7895.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2907	2907	2907	2907	2907	
5°	2895	2891	2895	2895	2899	275
15°	2768	2772	2792	2808	2824	780
25°	2510	2526	2566	2609	2637	1156
35°	2172	2188	2248	2315	2347	1356
45°	1771	1787	1851	1930	1966	1365
55°	1334	1354	1402	1470	1501	1193
65°	878	894	929	969	993	872
75°	445	453	469	492	508	473
85°	95	95	95	103	107	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2907.2	2907.2	2907.2	2907.2	2907.2
2.5°	2907.2	2903.2	2903.2	2903.2	2907.2
5°	2895.2	2891.3	2895.2	2895.2	2899.2
7.5°	2875.4	2871.4	2879.4	2883.3	2887.3
10°	2847.6	2847.6	2859.5	2867.4	2875.4
12.5°	2811.8	2815.8	2827.7	2839.6	2851.6
15°	2768.1	2772.1	2792.0	2807.9	2823.7
17.5°	2712.5	2720.5	2744.3	2768.1	2784.0
20°	2653.0	2664.9	2692.7	2724.5	2744.3
22.5°	2585.5	2601.3	2633.1	2672.8	2692.7
25°	2510.0	2525.9	2565.6	2609.3	2637.1
27.5°	2430.6	2450.4	2494.1	2545.7	2577.5
30°	2347.2	2367.0	2418.7	2474.3	2506.0
32.5°	2255.8	2279.7	2335.3	2398.8	2430.6
35°	2172.4	2188.3	2247.9	2315.4	2347.2
37.5°	2077.1	2097.0	2152.6	2224.1	2259.8
40°	1973.8	1993.7	2057.2	2128.7	2168.4
42.5°	1874.6	1890.4	1954.0	2033.4	2069.2
45°	1771.3	1787.2	1850.7	1930.2	1965.9
47.5°	1664.1	1683.9	1743.5	1819.0	1854.7
50°	1556.8	1572.7	1632.3	1703.8	1739.5
52.5°	1445.6	1461.5	1517.1	1588.6	1624.4
55°	1334.4	1354.3	1401.9	1469.5	1501.2
57.5°	1223.2	1243.1	1286.8	1350.3	1378.1
60°	1112.0	1127.9	1171.6	1227.2	1255.0
62.5°	992.9	1004.8	1048.5	1104.1	1127.9
65°	877.7	893.6	929.3	969.1	992.9
67.5°	770.5	778.4	810.2	853.9	869.8
70°	659.3	667.2	695.0	730.8	742.7
72.5°	548.1	560.0	579.8	611.6	627.5
75°	444.8	452.8	468.6	492.5	508.4
77.5°	345.5	349.5	361.4	381.3	393.2
80°	250.2	254.2	262.1	278.0	285.9
82.5°	166.8	170.8	174.7	182.7	190.6
85°	95.3	95.3	95.3	103.3	107.2
87.5°	35.7	31.8	31.8	31.8	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)