

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: P384050

Luminaire Tested: **24ID-90-L830-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-90-L830-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

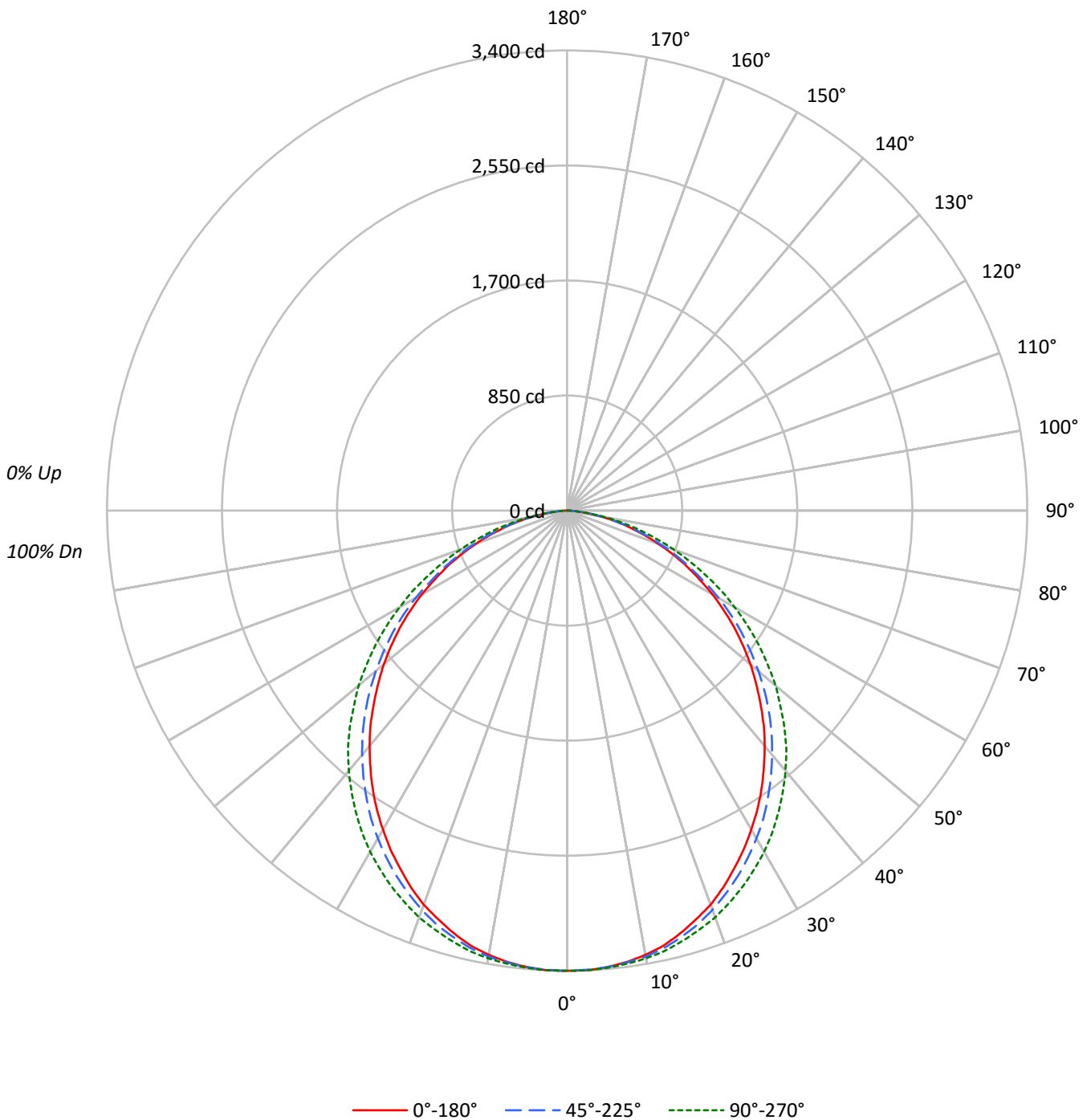
Lumens per Lamp: N/A
Luminaire Lumens: 8976.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																												
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71																												
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60																												
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52																												
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																												
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39																												
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35																												
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31																												
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28																												
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4575	4575	4575
5°	4574	4574	4580
10°	4553	4572	4590
15°	4505	4542	4586
20°	4437	4495	4579
25°	4333	4427	4554
30°	4228	4346	4521
35°	4115	4248	4470
40°	3989	4140	4408
45°	3843	4014	4322
50°	3700	3860	4208
55°	3534	3693	4051
60°	3341	3486	3849
65°	3107	3208	3594
70°	2813	2919	3291
75°	2455	2548	2876
80°	1987	2022	2265
85°	1181	1320	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.9	3.6
10°-20°	920.0	10.2
20°-30°	1376.2	15.3
30°-40°	1626.0	18.1
40°-50°	1640.7	18.3
50°-60°	1424.8	15.9
60°-70°	1021.7	11.4
70°-80°	532.3	5.9
80°-90°	112.4	1.3
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°	2618.1	29.2
0°-40°	4244.1	47.3
0°-60°	7309.7	81.4
0°-90°	8976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3400	3400	3400	3400	3400	
5°	3387	3382	3387	3387	3391	322
15°	3234	3238	3261	3283	3292	911
25°	2919	2937	2982	3040	3067	1345
35°	2505	2523	2586	2681	2721	1566
45°	2019	2042	2109	2217	2271	1559
55°	1507	1520	1574	1678	1727	1346
65°	976	972	1008	1084	1129	965
75°	472	468	490	526	553	504
85°	76	86	86	76	72	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3400.2	3400.2	3400.2	3400.2	3400.2
2.5°	3400.2	3395.7	3395.7	3395.7	3400.2
5°	3386.7	3382.2	3386.7	3386.7	3391.2
7.5°	3364.2	3359.7	3368.7	3373.2	3377.7
10°	3332.8	3332.8	3346.3	3355.3	3359.7
12.5°	3292.3	3292.3	3310.3	3323.8	3332.8
15°	3233.8	3238.3	3260.8	3283.3	3292.3
17.5°	3166.3	3179.8	3206.8	3238.3	3247.3
20°	3098.9	3107.9	3139.4	3179.8	3197.8
22.5°	3013.4	3026.9	3062.9	3116.9	3134.9
25°	2919.0	2937.0	2981.9	3040.4	3067.4
27.5°	2824.5	2838.0	2892.0	2959.5	2990.9
30°	2721.1	2739.1	2797.5	2874.0	2910.0
32.5°	2617.6	2631.1	2698.6	2779.6	2820.0
35°	2505.2	2523.2	2586.2	2680.6	2721.1
37.5°	2388.3	2410.7	2473.7	2572.7	2617.6
40°	2271.3	2284.8	2356.8	2455.7	2509.7
42.5°	2149.9	2167.9	2235.3	2343.3	2397.3
45°	2019.4	2041.9	2109.4	2217.3	2271.3
47.5°	1893.5	1916.0	1979.0	2086.9	2136.4
50°	1767.6	1781.1	1844.0	1952.0	2010.5
52.5°	1637.1	1650.6	1709.1	1812.6	1866.5
55°	1506.7	1520.2	1574.2	1677.6	1727.1
57.5°	1371.8	1380.8	1434.8	1529.2	1578.7
60°	1241.4	1245.9	1295.3	1380.8	1430.3
62.5°	1101.9	1106.4	1142.4	1241.4	1286.3
65°	976.0	971.5	1007.5	1083.9	1128.9
67.5°	845.6	845.6	877.0	944.5	980.5
70°	715.1	715.1	742.1	800.6	836.6
72.5°	593.7	593.7	616.2	661.2	688.1
75°	472.3	467.8	490.2	526.2	553.2
77.5°	359.8	359.8	368.8	400.3	418.3
80°	256.4	256.4	260.9	278.9	292.3
82.5°	161.9	161.9	161.9	170.9	175.4
85°	76.5	85.5	85.5	76.5	72.0
87.5°	36.0	36.0	31.5	31.5	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)