

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: P385226

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-90-L830-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

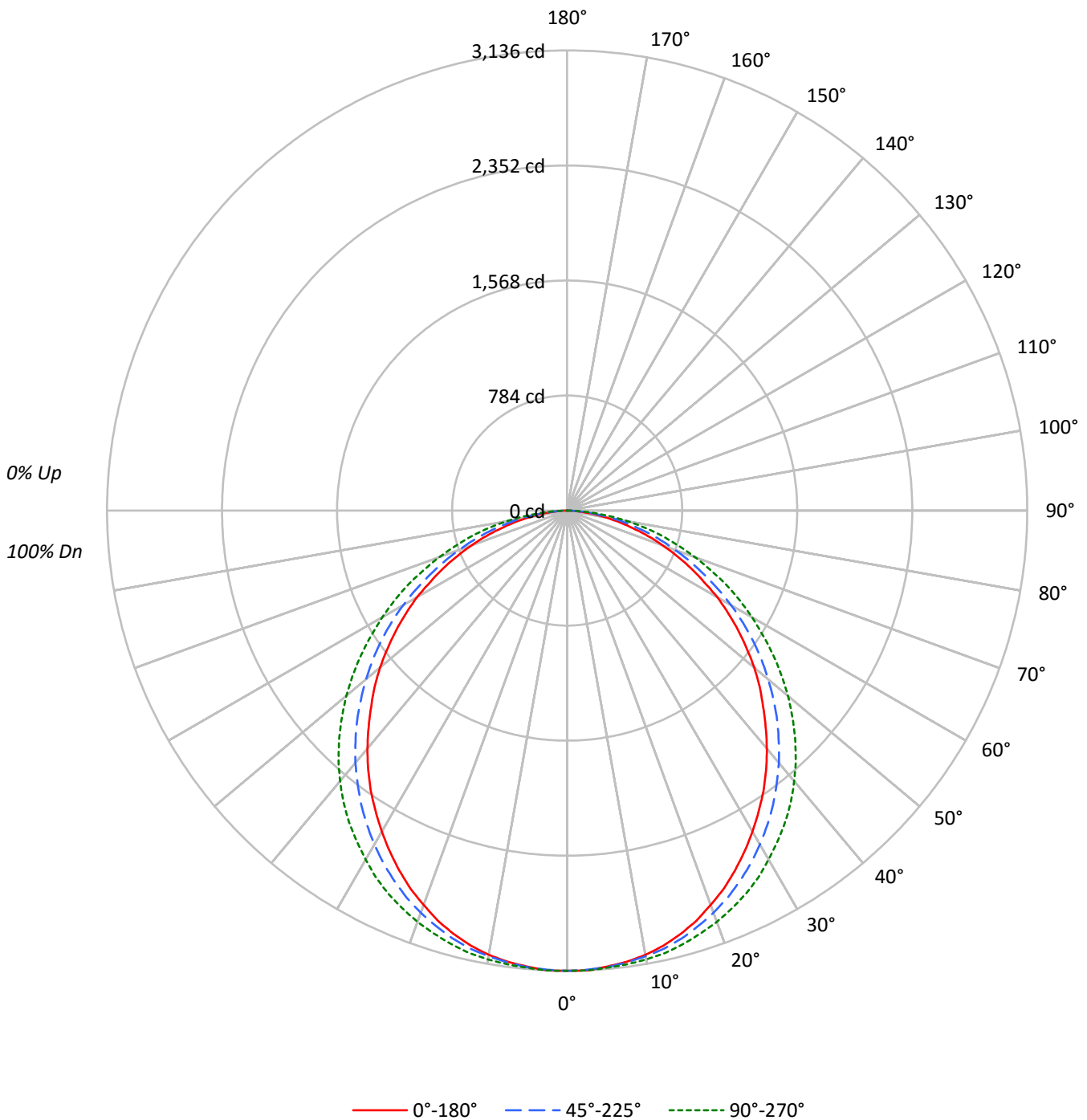
Lumens per Lamp: N/A
Luminaire Lumens: 8708.6 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4220	4220	4220
5°	4213	4219	4224
10°	4201	4213	4243
15°	4161	4204	4259
20°	4095	4177	4271
25°	4017	4135	4278
30°	3924	4081	4266
35°	3831	4019	4257
40°	3719	3943	4228
45°	3594	3853	4180
50°	3485	3742	4110
55°	3339	3627	4019
60°	3180	3475	3913
65°	2965	3273	3804
70°	2731	3076	3646
75°	2420	2855	3494
80°	2042	2553	3233
85°	1491	1967	2577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.9	3.4
10°-20°	851.8	9.8
20°-30°	1284.7	14.8
30°-40°	1533.7	17.6
40°-50°	1567.5	18.0
50°-60°	1389.9	16.0
60°-70°	1036.1	11.9
70°-80°	591.9	6.8
80°-90°	156.1	1.8
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°	2433.3	27.9
0°-40°	3967.0	45.6
0°-60°	6924.4	79.5
0°-90°	8708.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8708.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3136	3136	3136	3136	3136	
5°	3119	3119	3123	3123	3128	296
15°	2987	2996	3018	3044	3058	842
25°	2706	2728	2785	2847	2882	1246
35°	2333	2363	2447	2544	2592	1457
45°	1889	1928	2025	2135	2196	1459
55°	1423	1450	1546	1656	1713	1272
65°	931	953	1028	1133	1195	923
75°	466	488	549	633	672	497
85°	97	101	127	158	167	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3136.5	3136.5	3136.5	3136.5	3136.5
2.5°	3136.5	3132.1	3132.1	3132.1	3136.5
5°	3119.0	3119.0	3123.4	3123.4	3127.7
7.5°	3101.4	3101.4	3105.8	3110.2	3119.0
10°	3075.0	3075.0	3083.8	3097.0	3105.8
12.5°	3035.5	3039.9	3057.5	3075.0	3088.2
15°	2987.2	2996.0	3017.9	3044.3	3057.5
17.5°	2930.1	2938.9	2969.6	3004.7	3022.3
20°	2859.8	2877.4	2916.9	2960.8	2982.8
22.5°	2789.5	2807.1	2855.4	2908.1	2934.5
25°	2706.0	2728.0	2785.1	2846.6	2881.7
27.5°	2618.2	2644.5	2710.4	2780.7	2820.2
30°	2525.9	2556.7	2627.0	2706.0	2745.6
32.5°	2429.3	2460.0	2539.1	2627.0	2670.9
35°	2332.6	2363.4	2446.8	2543.5	2591.8
37.5°	2227.2	2258.0	2345.8	2451.2	2504.0
40°	2117.4	2152.5	2244.8	2350.2	2407.3
42.5°	2003.2	2042.7	2135.0	2249.2	2306.3
45°	1888.9	1928.5	2025.1	2135.0	2196.5
47.5°	1779.1	1809.9	1906.5	2020.7	2082.2
50°	1664.9	1691.3	1787.9	1902.1	1963.6
52.5°	1541.9	1577.1	1669.3	1783.5	1840.6
55°	1423.3	1449.7	1546.3	1656.1	1713.2
57.5°	1300.3	1326.7	1418.9	1528.7	1581.4
60°	1181.7	1208.0	1291.5	1401.3	1454.1
62.5°	1049.9	1076.3	1159.7	1273.9	1326.7
65°	931.3	953.3	1027.9	1133.4	1194.9
67.5°	812.7	834.7	904.9	1006.0	1054.3
70°	694.1	711.7	781.9	874.2	926.9
72.5°	579.9	597.4	667.7	751.2	795.1
75°	465.6	487.6	549.1	632.6	672.1
77.5°	360.2	382.2	434.9	509.6	544.7
80°	263.6	281.1	329.5	386.6	417.3
82.5°	175.7	188.9	224.0	272.4	294.3
85°	96.6	101.0	127.4	158.1	166.9
87.5°	39.5	39.5	48.3	52.7	57.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)