

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: P385394

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-90-L830-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

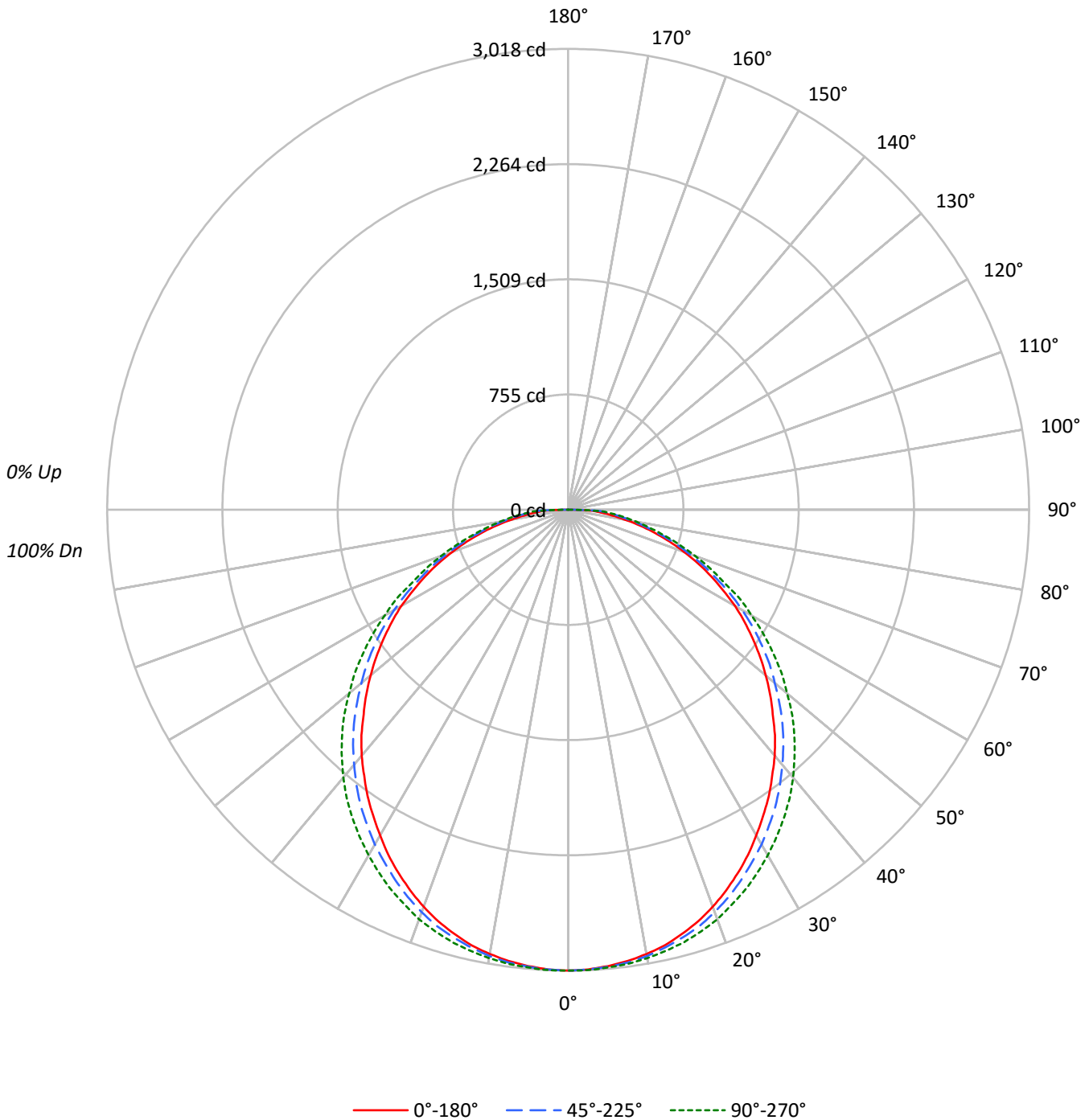
Lumens per Lamp: N/A
Luminaire Lumens: 8754.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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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CATALOG NUMBER: 24ID-90-L830-CNV

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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4061	4061	4061
5°	4037	4027	4035
10°	4007	3993	4015
15°	3963	3946	3995
20°	3904	3890	3967
25°	3825	3817	3923
30°	3736	3741	3873
35°	3654	3662	3822
40°	3569	3566	3759
45°	3459	3470	3678
50°	3368	3345	3563
55°	3266	3224	3435
60°	3165	3070	3265
65°	3020	2876	3037
70°	2844	2666	2827
75°	2642	2438	2581
80°	2368	2208	2371
85°	2238	2097	2268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	3.3
10°-20°	818.4	9.3
20°-30°	1235.0	14.1
30°-40°	1482.4	16.9
40°-50°	1534.2	17.5
50°-60°	1389.8	15.9
60°-70°	1070.8	12.2
70°-80°	662.6	7.6
80°-90°	275.2	3.1
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°	2339.0	26.7
0°-40°	3821.4	43.7
0°-60°	6745.4	77.1
0°-90°	8754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3018	3018	3018	3018	3018	
5°	3000	3000	3004	3004	3009	285
15°	2877	2882	2900	2918	2932	811
25°	2627	2636	2677	2722	2745	1210
35°	2290	2308	2367	2431	2463	1432
45°	1894	1921	1985	2058	2094	1464
55°	1475	1498	1548	1616	1639	1321
65°	1033	1042	1074	1120	1124	1022
75°	587	601	624	651	651	622
85°	214	237	273	291	287	231
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3018.2	3018.2	3018.2	3018.2	3018.2
2.5°	3013.6	3013.6	3013.6	3013.6	3018.2
5°	3000.0	3000.0	3004.5	3004.5	3009.1
7.5°	2981.8	2981.8	2990.9	2990.9	3000.0
10°	2954.5	2959.0	2968.1	2972.7	2981.8
12.5°	2922.6	2922.6	2936.3	2949.9	2959.0
15°	2877.1	2881.6	2899.8	2918.1	2931.7
17.5°	2827.0	2831.6	2858.9	2877.1	2895.3
20°	2767.8	2772.4	2804.2	2831.6	2854.3
22.5°	2699.5	2708.6	2745.1	2781.5	2799.7
25°	2626.7	2635.8	2676.8	2722.3	2745.1
27.5°	2549.3	2563.0	2603.9	2654.0	2681.3
30°	2462.8	2481.0	2531.1	2585.7	2613.0
32.5°	2376.3	2394.5	2449.2	2512.9	2540.2
35°	2289.8	2308.0	2367.2	2430.9	2462.8
37.5°	2194.2	2212.4	2276.2	2344.5	2380.9
40°	2103.2	2121.4	2180.6	2258.0	2289.8
42.5°	2003.0	2021.2	2085.0	2157.8	2194.2
45°	1893.8	1921.1	1984.8	2057.7	2094.1
47.5°	1793.6	1816.4	1875.6	1953.0	1989.4
50°	1688.9	1711.7	1766.3	1843.7	1871.0
52.5°	1584.2	1607.0	1661.6	1734.4	1761.8
55°	1475.0	1497.7	1547.8	1616.1	1638.8
57.5°	1370.3	1388.5	1434.0	1497.7	1515.9
60°	1261.0	1279.2	1315.6	1374.8	1388.5
62.5°	1142.6	1156.3	1197.3	1251.9	1270.1
65°	1033.4	1042.5	1074.4	1119.9	1124.4
67.5°	919.6	928.7	960.5	992.4	1006.1
70°	805.8	819.4	842.2	874.0	883.2
72.5°	696.5	710.2	732.9	760.2	764.8
75°	587.3	600.9	623.7	651.0	651.0
77.5°	482.5	496.2	523.5	546.3	546.3
80°	377.8	400.6	427.9	450.7	450.7
82.5°	291.3	309.6	346.0	364.2	364.2
85°	214.0	236.7	273.1	291.3	286.8
87.5°	154.8	177.5	209.4	223.1	218.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)