

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: P385114

Luminaire Tested: **14ID-85-L830-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385114
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: 14ID-85-L830-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

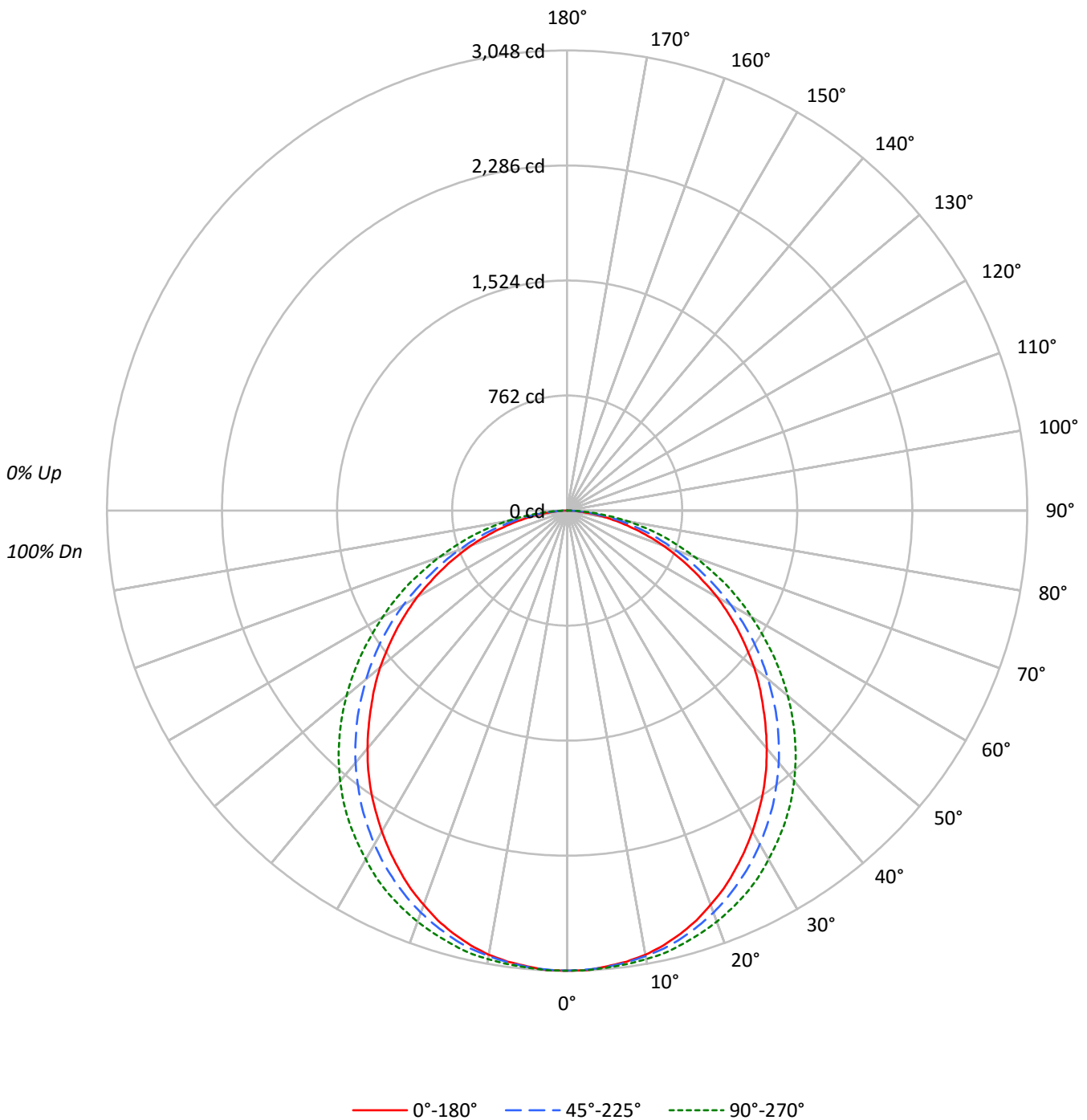
Lumens per Lamp: N/A
Luminaire Lumens: 8461.4 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 83.3
Input Voltage (V): NR
Input Current (Ain): 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°	8201	8201	8201
5°	8186	8198	8209
10°	8164	8187	8246
15°	8086	8169	8276
20°	7957	8116	8299
25°	7807	8035	8313
30°	7626	7931	8289
35°	7445	7810	8272
40°	7227	7662	8216
45°	6984	7488	8122
50°	6772	7273	7987
55°	6488	7049	7810
60°	6179	6754	7604
65°	5762	6360	7393
70°	5306	5977	7086
75°	4704	5547	6789
80°	3969	4961	6284
85°	2899	3822	5008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.5	3.4
10°-20°	827.6	9.8
20°-30°	1248.2	14.8
30°-40°	1490.2	17.6
40°-50°	1523.0	18.0
50°-60°	1350.5	16.0
60°-70°	1006.7	11.9
70°-80°	575.1	6.8
80°-90°	151.7	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°	2364.3	27.9
0°-40°	3854.4	45.6
0°-60°	6727.9	79.5
0°-90°	8461.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8461.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3048	3048	3048	3048	3048	
5°	3030	3030	3035	3035	3039	288
15°	2902	2911	2932	2958	2971	818
25°	2629	2651	2706	2766	2800	1211
35°	2266	2296	2377	2471	2518	1416
45°	1835	1874	1968	2074	2134	1418
55°	1383	1408	1502	1609	1665	1236
65°	905	926	999	1101	1161	897
75°	452	474	534	615	653	483
85°	94	98	124	154	162	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3047.5	3047.5	3047.5	3047.5	3047.5
2.5°	3047.5	3043.2	3043.2	3043.2	3047.5
5°	3030.4	3030.4	3034.7	3034.7	3039.0
7.5°	3013.4	3013.4	3017.6	3021.9	3030.4
10°	2987.7	2987.7	2996.3	3009.1	3017.6
12.5°	2949.3	2953.6	2970.7	2987.7	3000.6
15°	2902.4	2910.9	2932.3	2957.9	2970.7
17.5°	2846.9	2855.4	2885.3	2919.5	2936.5
20°	2778.6	2795.7	2834.1	2876.8	2898.1
22.5°	2710.3	2727.4	2774.3	2825.6	2851.2
25°	2629.2	2650.6	2706.0	2765.8	2799.9
27.5°	2543.9	2569.5	2633.5	2701.8	2740.2
30°	2454.2	2484.1	2552.4	2629.2	2667.6
32.5°	2360.3	2390.2	2467.0	2552.4	2595.1
35°	2266.4	2296.3	2377.4	2471.3	2518.2
37.5°	2164.0	2193.9	2279.2	2381.7	2432.9
40°	2057.3	2091.4	2181.1	2283.5	2339.0
42.5°	1946.3	1984.7	2074.3	2185.3	2240.8
45°	1835.3	1873.7	1967.6	2074.3	2134.1
47.5°	1728.6	1758.5	1852.4	1963.4	2023.1
50°	1617.7	1643.3	1737.2	1848.1	1907.9
52.5°	1498.1	1532.3	1621.9	1732.9	1788.4
55°	1382.9	1408.5	1502.4	1609.1	1664.6
57.5°	1263.4	1289.0	1378.6	1485.3	1536.6
60°	1148.1	1173.8	1254.9	1361.6	1412.8
62.5°	1020.1	1045.7	1126.8	1237.8	1289.0
65°	904.9	926.2	998.8	1101.2	1161.0
67.5°	789.6	811.0	879.3	977.4	1024.4
70°	674.4	691.4	759.7	849.4	900.6
72.5°	563.4	580.5	648.8	729.9	772.5
75°	452.4	473.8	533.5	614.6	653.0
77.5°	350.0	371.3	422.6	495.1	529.3
80°	256.1	273.2	320.1	375.6	405.5
82.5°	170.7	183.5	217.7	264.6	286.0
85°	93.9	98.2	123.8	153.7	162.2
87.5°	38.4	38.4	47.0	51.2	55.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)