

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: P385116

Luminaire Tested: **14ID-85-L840-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385116
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-L840-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

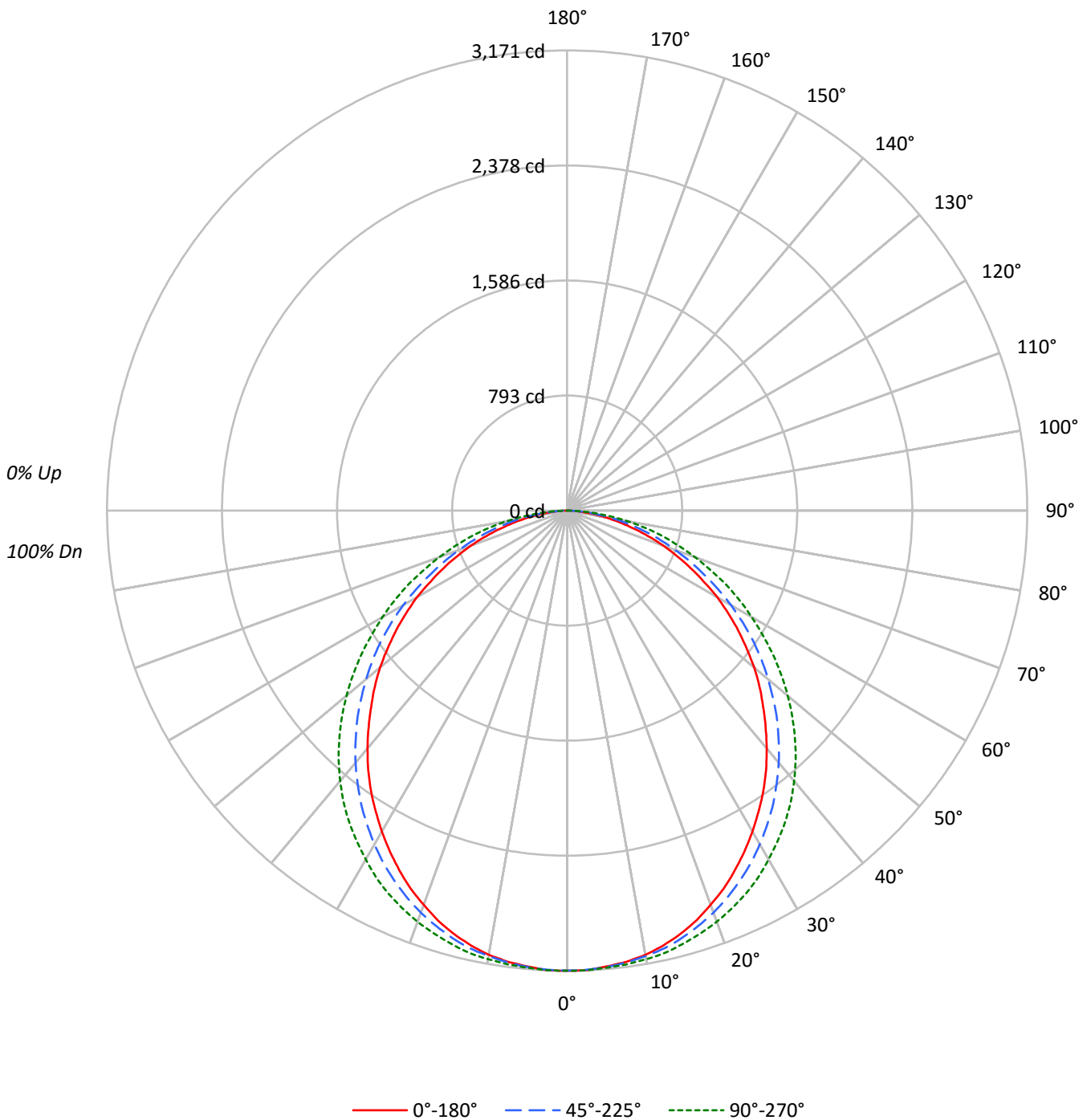
Lumens per Lamp: N/A
Luminaire Lumens: 8803.3 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 83.3
Input Voltage (V): NR
Input Current (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°	8532	8532	8532
5°	8517	8529	8541
10°	8494	8518	8579
15°	8413	8499	8610
20°	8279	8444	8635
25°	8122	8359	8649
30°	7934	8251	8624
35°	7746	8126	8607
40°	7519	7971	8548
45°	7267	7791	8450
50°	7046	7567	8310
55°	6750	7333	8125
60°	6429	7027	7911
65°	5994	6616	7691
70°	5520	6219	7372
75°	4894	5771	7064
80°	4128	5162	6538
85°	3017	3977	5209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.1	3.4
10°-20°	861.0	9.8
20°-30°	1298.6	14.8
30°-40°	1550.4	17.6
40°-50°	1584.5	18.0
50°-60°	1405.0	16.0
60°-70°	1047.4	11.9
70°-80°	598.3	6.8
80°-90°	157.8	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°	2459.8	27.9
0°-40°	4010.2	45.6
0°-60°	6999.7	79.5
0°-90°	8803.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8803.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3171	3171	3171	3171	3171	
5°	3153	3153	3157	3157	3162	300
15°	3020	3028	3051	3077	3091	851
25°	2736	2758	2815	2878	2913	1259
35°	2358	2389	2474	2571	2620	1473
45°	1910	1950	2047	2158	2220	1475
55°	1439	1465	1563	1674	1732	1286
65°	941	964	1039	1146	1208	933
75°	471	493	555	640	679	502
85°	98	102	129	160	169	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3170.6	3170.6	3170.6	3170.6	3170.6
2.5°	3170.6	3166.2	3166.2	3166.2	3170.6
5°	3152.9	3152.9	3157.3	3157.3	3161.8
7.5°	3135.1	3135.1	3139.6	3144.0	3152.9
10°	3108.5	3108.5	3117.4	3130.7	3139.6
12.5°	3068.5	3072.9	3090.7	3108.5	3121.8
15°	3019.7	3028.5	3050.7	3077.4	3090.7
17.5°	2961.9	2970.8	3001.9	3037.4	3055.2
20°	2890.9	2908.6	2948.6	2993.0	3015.2
22.5°	2819.8	2837.6	2886.4	2939.7	2966.4
25°	2735.5	2757.7	2815.4	2877.6	2913.1
27.5°	2646.6	2673.3	2739.9	2810.9	2850.9
30°	2553.4	2584.5	2655.5	2735.5	2775.4
32.5°	2455.7	2486.8	2566.7	2655.5	2699.9
35°	2358.0	2389.1	2473.5	2571.2	2620.0
37.5°	2251.4	2282.5	2371.3	2477.9	2531.2
40°	2140.4	2175.9	2269.2	2375.8	2433.5
42.5°	2024.9	2064.9	2158.2	2273.6	2331.4
45°	1909.5	1949.5	2047.2	2158.2	2220.3
47.5°	1798.5	1829.6	1927.3	2042.7	2104.9
50°	1683.0	1709.7	1807.4	1922.8	1985.0
52.5°	1558.7	1594.2	1687.5	1802.9	1860.6
55°	1438.8	1465.4	1563.1	1674.1	1731.9
57.5°	1314.4	1341.1	1434.3	1545.4	1598.6
60°	1194.5	1221.2	1305.6	1416.6	1469.9
62.5°	1061.3	1088.0	1172.3	1287.8	1341.1
65°	941.4	963.6	1039.1	1145.7	1207.9
67.5°	821.5	843.7	914.8	1016.9	1065.8
70°	701.6	719.4	790.4	883.7	937.0
72.5°	586.2	603.9	675.0	759.4	803.8
75°	470.7	492.9	555.1	639.5	679.4
77.5°	364.1	386.3	439.6	515.1	550.6
80°	266.4	284.2	333.1	390.8	421.9
82.5°	177.6	190.9	226.5	275.3	297.5
85°	97.7	102.1	128.8	159.9	168.7
87.5°	40.0	40.0	48.8	53.3	57.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)