

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: P385213

Luminaire Tested: **24ID-70-L850-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385213
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-70-L850-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

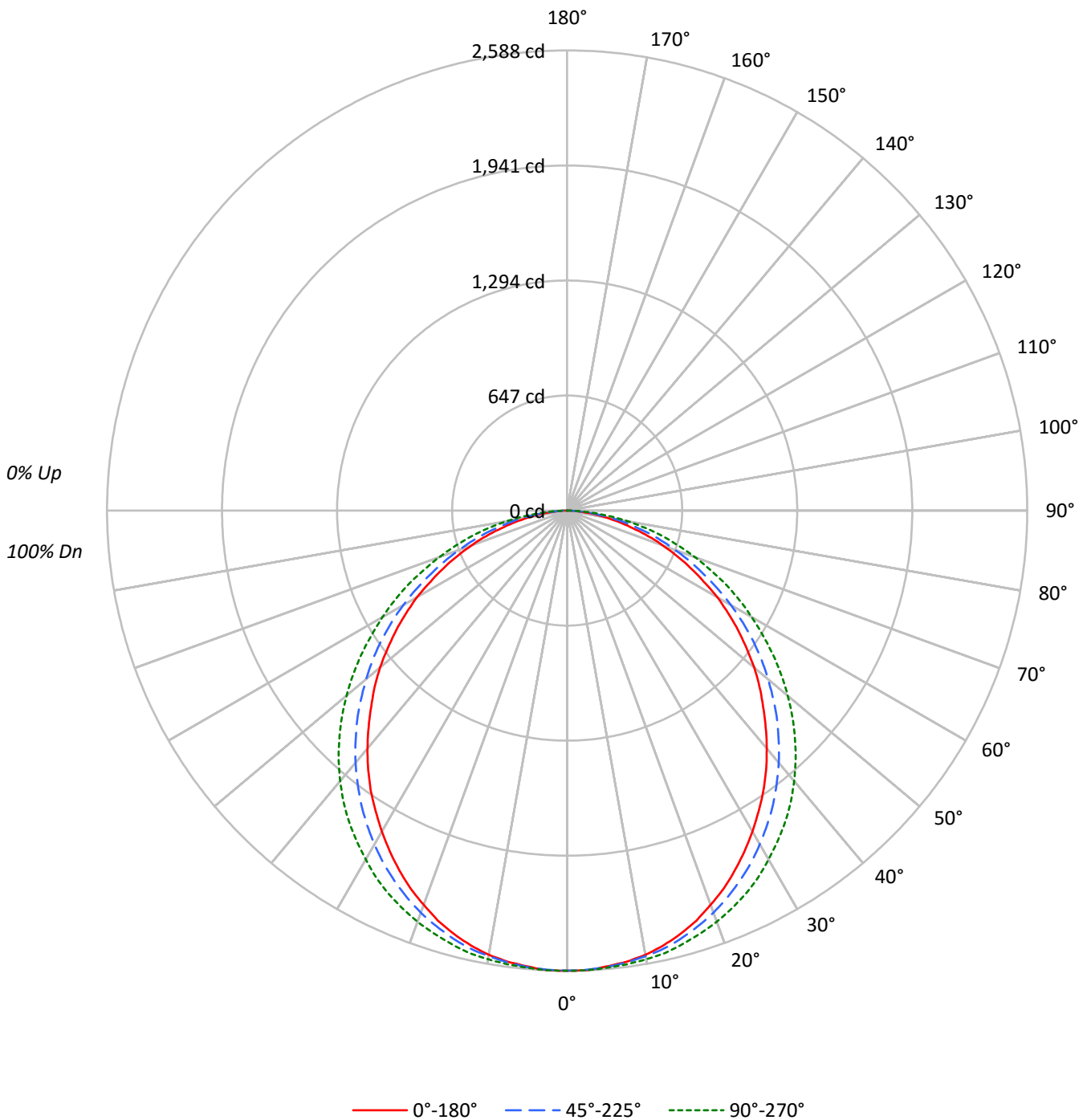
Lumens per Lamp: N/A
Luminaire Lumens: 7185.2 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 65.7
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°	3482	3482	3482
5°	3476	3481	3485
10°	3466	3476	3501
15°	3433	3468	3514
20°	3378	3446	3524
25°	3315	3411	3530
30°	3238	3367	3519
35°	3161	3316	3512
40°	3068	3253	3489
45°	2966	3179	3448
50°	2875	3088	3391
55°	2755	2993	3316
60°	2624	2868	3228
65°	2446	2700	3139
70°	2253	2538	3009
75°	1997	2355	2883
80°	1685	2106	2668
85°	1230	1623	2126



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.0	3.4
10°-20°	702.8	9.8
20°-30°	1059.9	14.8
30°-40°	1265.4	17.6
40°-50°	1293.3	18.0
50°-60°	1146.8	16.0
60°-70°	854.9	11.9
70°-80°	488.4	6.8
80°-90°	128.8	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°	2007.7	27.9
0°-40°	3273.1	45.6
0°-60°	5713.1	79.5
0°-90°	7185.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7185.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2588	2588	2588	2588	2588	
5°	2573	2573	2577	2577	2581	245
15°	2465	2472	2490	2512	2523	694
25°	2233	2251	2298	2349	2378	1028
35°	1925	1950	2019	2099	2138	1202
45°	1558	1591	1671	1762	1812	1204
55°	1174	1196	1276	1366	1414	1049
65°	768	786	848	935	986	762
75°	384	402	453	522	554	410
85°	80	83	105	130	138	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2587.9	2587.9	2587.9	2587.9	2587.9
2.5°	2587.9	2584.2	2584.2	2584.2	2587.9
5°	2573.4	2573.4	2577.0	2577.0	2580.6
7.5°	2558.9	2558.9	2562.5	2566.1	2573.4
10°	2537.1	2537.1	2544.4	2555.2	2562.5
12.5°	2504.5	2508.1	2522.6	2537.1	2548.0
15°	2464.6	2471.9	2490.0	2511.7	2522.6
17.5°	2417.5	2424.8	2450.1	2479.1	2493.6
20°	2359.5	2374.0	2406.6	2442.9	2461.0
22.5°	2301.5	2316.0	2355.9	2399.4	2421.1
25°	2232.7	2250.8	2297.9	2348.6	2377.6
27.5°	2160.2	2181.9	2236.3	2294.3	2326.9
30°	2084.1	2109.4	2167.4	2232.7	2265.3
32.5°	2004.3	2029.7	2094.9	2167.4	2203.7
35°	1924.6	1950.0	2018.8	2098.6	2138.4
37.5°	1837.6	1863.0	1935.5	2022.4	2065.9
40°	1747.0	1776.0	1852.1	1939.1	1986.2
42.5°	1652.7	1685.4	1761.5	1855.7	1902.8
45°	1558.5	1591.1	1670.9	1761.5	1812.2
47.5°	1467.9	1493.3	1573.0	1667.2	1718.0
50°	1373.7	1395.4	1475.2	1569.4	1620.1
52.5°	1272.2	1301.2	1377.3	1471.5	1518.6
55°	1174.3	1196.1	1275.8	1366.4	1413.5
57.5°	1072.8	1094.6	1170.7	1261.3	1304.8
60°	975.0	996.7	1065.6	1156.2	1199.7
62.5°	866.2	888.0	956.9	1051.1	1094.6
65°	768.4	786.5	848.1	935.1	985.9
67.5°	670.5	688.6	746.6	830.0	869.9
70°	572.7	587.2	645.2	721.3	764.8
72.5°	478.4	492.9	550.9	619.8	656.0
75°	384.2	402.3	453.1	521.9	554.5
77.5°	297.2	315.3	358.8	420.4	449.4
80°	217.5	232.0	271.8	319.0	344.3
82.5°	145.0	155.9	184.8	224.7	242.8
85°	79.7	83.4	105.1	130.5	137.7
87.5°	32.6	32.6	39.9	43.5	47.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)