

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: P385112

Luminaire Tested: **14ID-80-L840-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385112
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-80-L840-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

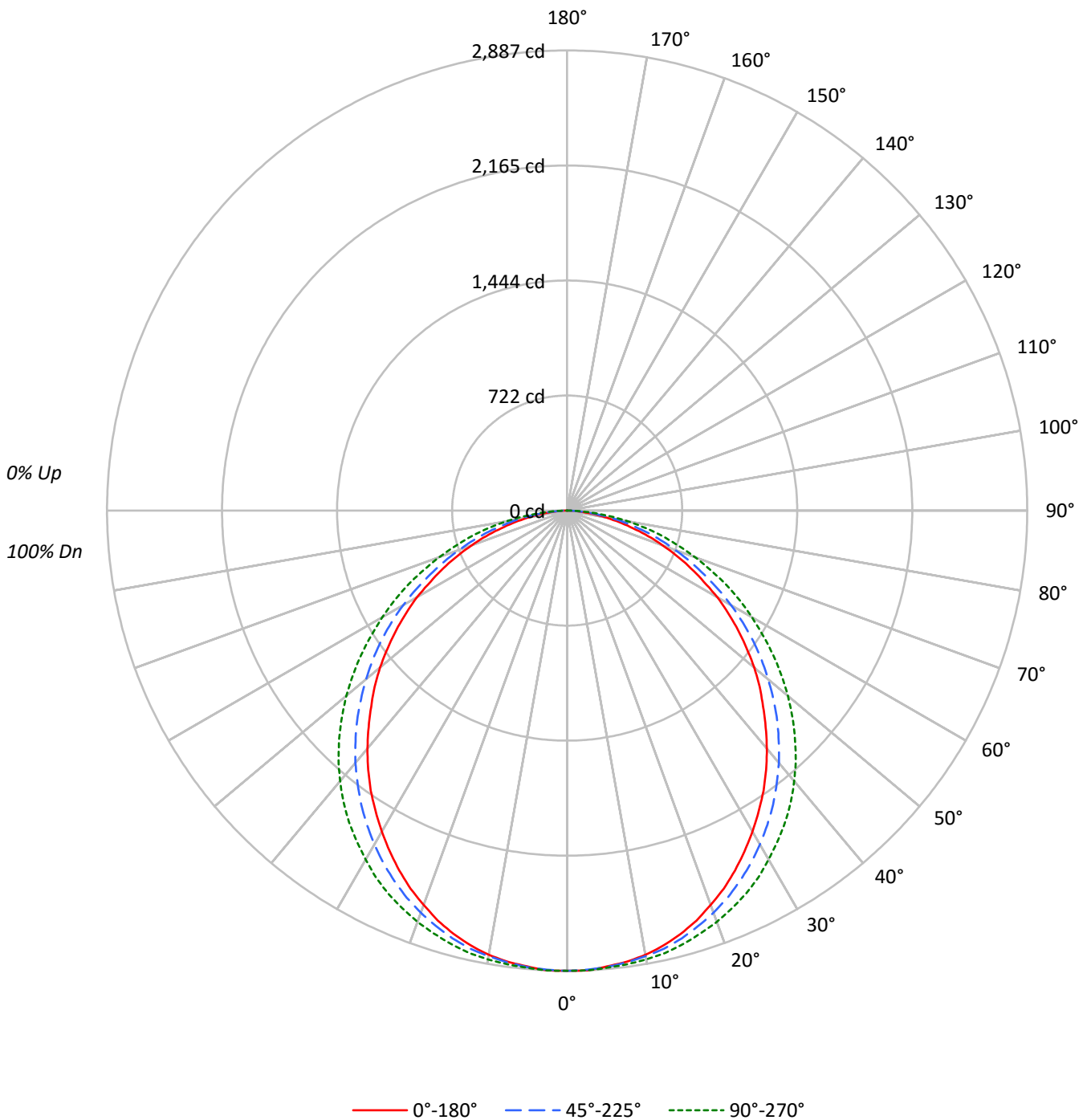
Lumens per Lamp: N/A
Luminaire Lumens: 8016.8 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 77.1
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°	7770	7770	7770
5°	7756	7767	7778
10°	7735	7757	7812
15°	7661	7740	7841
20°	7539	7690	7863
25°	7396	7613	7877
30°	7225	7514	7854
35°	7054	7400	7838
40°	6847	7259	7785
45°	6618	7095	7695
50°	6417	6890	7567
55°	6147	6678	7399
60°	5854	6399	7204
65°	5459	6025	7004
70°	5027	5663	6714
75°	4457	5256	6433
80°	3760	4700	5954
85°	2748	3622	4746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.3	3.4
10°-20°	784.1	9.8
20°-30°	1182.6	14.8
30°-40°	1411.9	17.6
40°-50°	1443.0	18.0
50°-60°	1279.5	16.0
60°-70°	953.8	11.9
70°-80°	544.9	6.8
80°-90°	143.7	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°	2240.1	27.9
0°-40°	3651.9	45.6
0°-60°	6374.4	79.5
0°-90°	8016.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8016.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2887	2887	2887	2887	2887	
5°	2871	2871	2875	2875	2879	273
15°	2750	2758	2778	2802	2815	775
25°	2491	2511	2564	2620	2653	1147
35°	2147	2176	2252	2341	2386	1342
45°	1739	1775	1864	1965	2022	1343
55°	1310	1334	1424	1525	1577	1171
65°	857	878	946	1043	1100	850
75°	429	449	506	582	619	457
85°	89	93	117	146	154	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2887.4	2887.4	2887.4	2887.4	2887.4
2.5°	2887.4	2883.3	2883.3	2883.3	2887.4
5°	2871.2	2871.2	2875.2	2875.2	2879.3
7.5°	2855.0	2855.0	2859.1	2863.1	2871.2
10°	2830.8	2830.8	2838.8	2851.0	2859.1
12.5°	2794.4	2798.4	2814.6	2830.8	2842.9
15°	2749.9	2758.0	2778.2	2802.4	2814.6
17.5°	2697.3	2705.4	2733.7	2766.1	2782.2
20°	2632.6	2648.8	2685.2	2725.6	2745.8
22.5°	2567.9	2584.1	2628.6	2677.1	2701.4
25°	2491.1	2511.3	2563.9	2620.5	2652.8
27.5°	2410.2	2434.5	2495.1	2559.8	2596.2
30°	2325.3	2353.6	2418.3	2491.1	2527.5
32.5°	2236.3	2264.6	2337.4	2418.3	2458.7
35°	2147.3	2175.6	2252.5	2341.4	2385.9
37.5°	2050.3	2078.6	2159.5	2256.5	2305.0
40°	1949.2	1981.5	2066.5	2163.5	2216.1
42.5°	1844.0	1880.4	1965.4	2070.5	2123.1
45°	1738.9	1775.3	1864.3	1965.4	2022.0
47.5°	1637.8	1666.1	1755.1	1860.2	1916.8
50°	1532.7	1556.9	1645.9	1751.0	1807.6
52.5°	1419.4	1451.8	1536.7	1641.8	1694.4
55°	1310.2	1334.5	1423.5	1524.6	1577.1
57.5°	1197.0	1221.3	1306.2	1407.3	1455.8
60°	1087.8	1112.1	1188.9	1290.0	1338.5
62.5°	966.5	990.8	1067.6	1172.7	1221.3
65°	857.3	877.5	946.3	1043.3	1100.0
67.5°	748.1	768.3	833.1	926.1	970.5
70°	638.9	655.1	719.8	804.7	853.3
72.5°	533.8	550.0	614.7	691.5	732.0
75°	428.7	448.9	505.5	582.3	618.7
77.5°	331.6	351.8	400.3	469.1	501.4
80°	242.6	258.8	303.3	355.9	384.2
82.5°	161.8	173.9	206.2	250.7	270.9
85°	89.0	93.0	117.3	145.6	153.7
87.5°	36.4	36.4	44.5	48.5	52.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)