

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: P385113

Luminaire Tested: **14ID-80-L850-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385113
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-L850-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

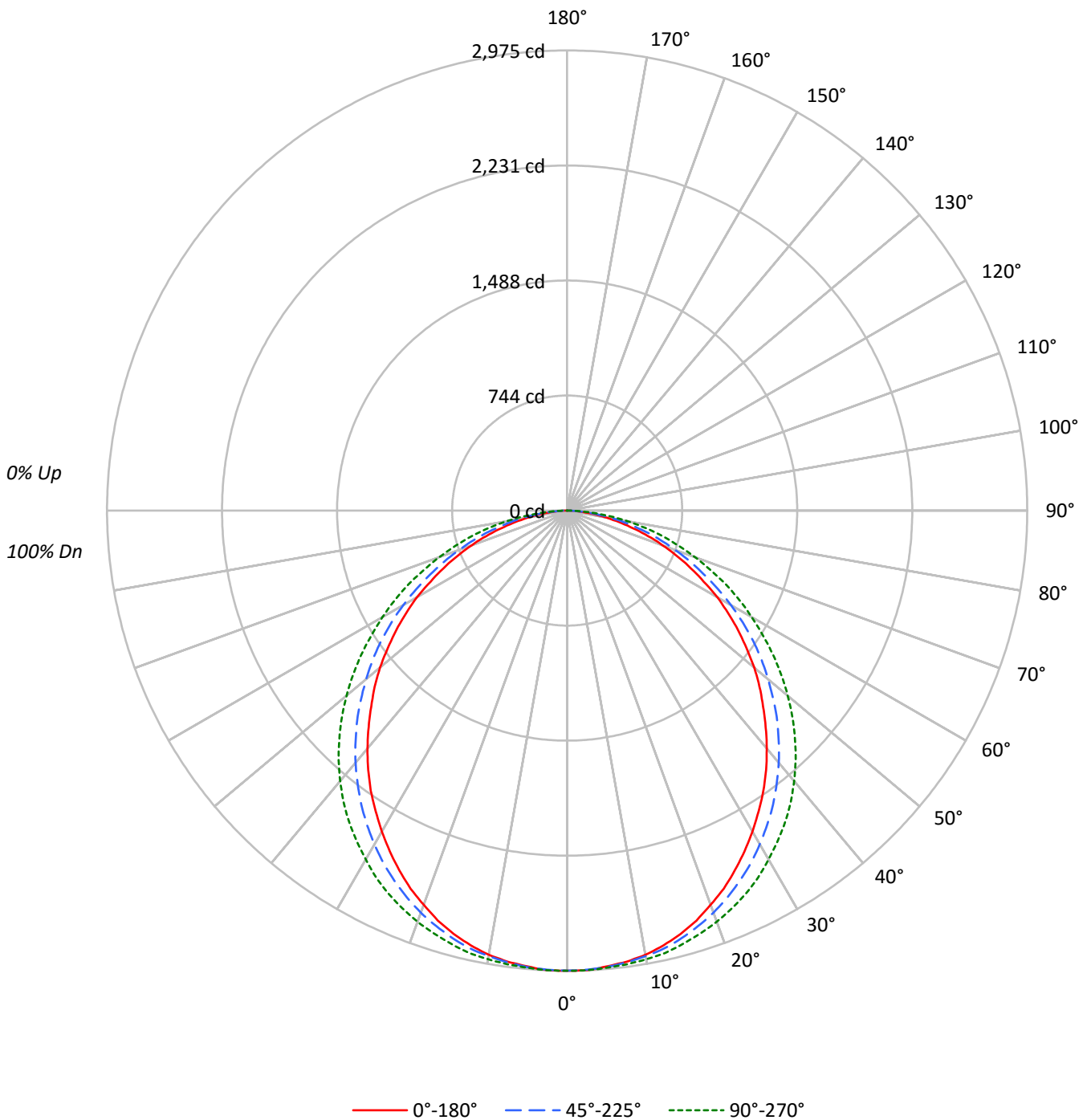
Lumens per Lamp: N/A
Luminaire Lumens: 8259.7 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 77.1
Input Voltage (V): NR
Input Current (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°	8005	8005	8005
5°	7991	8002	8013
10°	7969	7992	8049
15°	7893	7974	8079
20°	7767	7922	8101
25°	7620	7843	8115
30°	7444	7742	8091
35°	7268	7624	8075
40°	7054	7479	8020
45°	6818	7309	7928
50°	6611	7099	7797
55°	6333	6881	7623
60°	6032	6592	7422
65°	5624	6208	7216
70°	5179	5835	6917
75°	4591	5415	6628
80°	3874	4843	6134
85°	2831	3730	4888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.6	3.4
10°-20°	807.9	9.8
20°-30°	1218.4	14.8
30°-40°	1454.6	17.6
40°-50°	1486.7	18.0
50°-60°	1318.3	16.0
60°-70°	982.7	11.9
70°-80°	561.4	6.8
80°-90°	148.1	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°	2307.9	27.9
0°-40°	3762.5	45.6
0°-60°	6567.5	79.5
0°-90°	8259.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8259.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2975	2975	2975	2975	2975	
5°	2958	2958	2962	2962	2966	281
15°	2833	2842	2862	2887	2900	798
25°	2566	2587	2642	2700	2733	1182
35°	2212	2242	2321	2412	2458	1382
45°	1792	1829	1921	2025	2083	1384
55°	1350	1375	1467	1571	1625	1206
65°	883	904	975	1075	1133	875
75°	442	462	521	600	638	471
85°	92	96	121	150	158	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2974.9	2974.9	2974.9	2974.9	2974.9
2.5°	2974.9	2970.7	2970.7	2970.7	2974.9
5°	2958.2	2958.2	2962.4	2962.4	2966.5
7.5°	2941.5	2941.5	2945.7	2949.9	2958.2
10°	2916.5	2916.5	2924.9	2937.4	2945.7
12.5°	2879.0	2883.2	2899.9	2916.5	2929.0
15°	2833.2	2841.5	2862.4	2887.4	2899.9
17.5°	2779.0	2787.4	2816.5	2849.9	2866.5
20°	2712.4	2729.0	2766.5	2808.2	2829.0
22.5°	2645.7	2662.4	2708.2	2758.2	2783.2
25°	2566.5	2587.4	2641.5	2699.9	2733.2
27.5°	2483.2	2508.2	2570.7	2637.4	2674.9
30°	2395.7	2424.9	2491.5	2566.5	2604.0
32.5°	2304.1	2333.2	2408.2	2491.5	2533.2
35°	2212.4	2241.6	2320.7	2412.4	2458.2
37.5°	2112.4	2141.6	2224.9	2324.9	2374.9
40°	2008.2	2041.6	2129.1	2229.1	2283.2
42.5°	1899.9	1937.4	2024.9	2133.2	2187.4
45°	1791.6	1829.1	1920.7	2024.9	2083.2
47.5°	1687.4	1716.6	1808.2	1916.6	1974.9
50°	1579.1	1604.1	1695.8	1804.1	1862.4
52.5°	1462.4	1495.8	1583.3	1691.6	1745.7
55°	1349.9	1374.9	1466.6	1570.8	1624.9
57.5°	1233.3	1258.3	1345.8	1449.9	1499.9
60°	1120.8	1145.8	1224.9	1329.1	1379.1
62.5°	995.8	1020.8	1099.9	1208.3	1258.3
65°	883.3	904.1	975.0	1074.9	1133.3
67.5°	770.8	791.6	858.3	954.1	1000.0
70°	658.3	675.0	741.6	829.1	879.1
72.5°	550.0	566.6	633.3	712.5	754.1
75°	441.6	462.5	520.8	600.0	637.5
77.5°	341.7	362.5	412.5	483.3	516.6
80°	250.0	266.7	312.5	366.6	395.8
82.5°	166.7	179.2	212.5	258.3	279.2
85°	91.7	95.8	120.8	150.0	158.3
87.5°	37.5	37.5	45.8	50.0	54.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)