

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: P385105

Luminaire Tested: **14ID-70-L850-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385105
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-70-L850-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

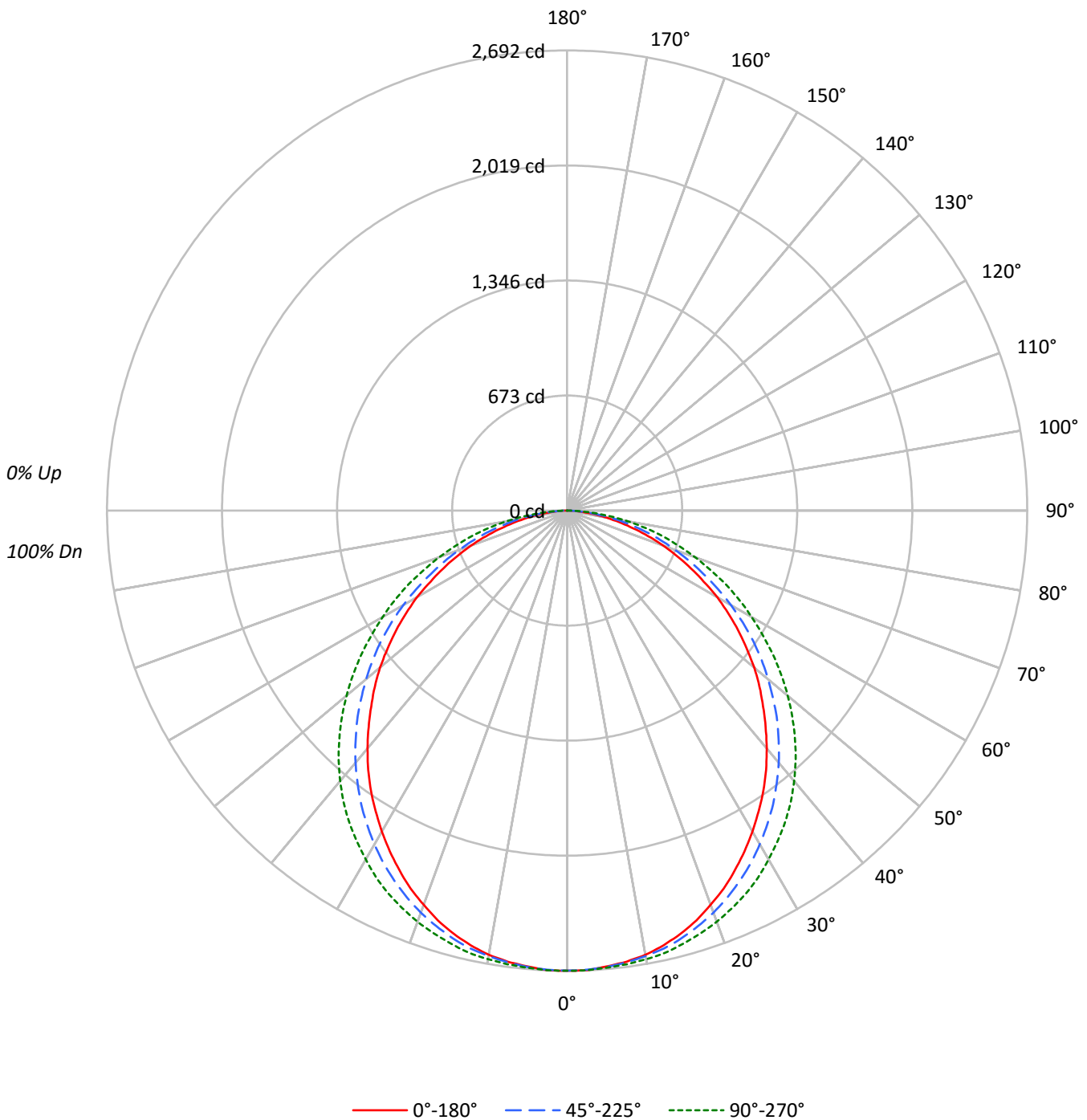
Lumens per Lamp: N/A
Luminaire Lumens: 7473.4 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 65.6
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°	7243	7243	7243
5°	7230	7240	7250
10°	7211	7231	7283
15°	7142	7215	7310
20°	7028	7168	7330
25°	6895	7097	7343
30°	6736	7005	7321
35°	6576	6898	7307
40°	6383	6767	7257
45°	6169	6614	7173
50°	5982	6423	7055
55°	5730	6226	6898
60°	5458	5965	6716
65°	5089	5617	6529
70°	4686	5279	6258
75°	4155	4899	5997
80°	3505	4381	5549
85°	2560	3375	4424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.8	3.4
10°-20°	731.0	9.8
20°-30°	1102.4	14.8
30°-40°	1316.2	17.6
40°-50°	1345.2	18.0
50°-60°	1192.8	16.0
60°-70°	889.2	11.9
70°-80°	508.0	6.8
80°-90°	134.0	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°	2088.2	27.9
0°-40°	3404.4	45.6
0°-60°	5942.3	79.5
0°-90°	7473.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7473.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2692	2692	2692	2692	2692	
5°	2677	2677	2680	2680	2684	254
15°	2564	2571	2590	2612	2624	722
25°	2322	2341	2390	2443	2473	1069
35°	2002	2028	2100	2183	2224	1251
45°	1621	1655	1738	1832	1885	1252
55°	1221	1244	1327	1421	1470	1091
65°	799	818	882	973	1025	792
75°	400	418	471	543	577	426
85°	83	87	109	136	143	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2691.7	2691.7	2691.7	2691.7	2691.7
2.5°	2691.7	2687.9	2687.9	2687.9	2691.7
5°	2676.6	2676.6	2680.3	2680.3	2684.1
7.5°	2661.5	2661.5	2665.3	2669.0	2676.6
10°	2638.9	2638.9	2646.4	2657.7	2665.3
12.5°	2605.0	2608.7	2623.8	2638.9	2650.2
15°	2563.5	2571.0	2589.9	2612.5	2623.8
17.5°	2514.5	2522.0	2548.4	2578.6	2593.6
20°	2454.2	2469.2	2503.2	2540.9	2559.7
22.5°	2393.8	2408.9	2450.4	2495.6	2518.2
25°	2322.2	2341.1	2390.1	2442.8	2473.0
27.5°	2246.8	2269.4	2326.0	2386.3	2420.2
30°	2167.7	2194.0	2254.4	2322.2	2356.1
32.5°	2084.7	2111.1	2179.0	2254.4	2292.1
35°	2001.8	2028.2	2099.8	2182.7	2224.2
37.5°	1911.3	1937.7	2013.1	2103.6	2148.8
40°	1817.1	1847.2	1926.4	2016.9	2065.9
42.5°	1719.0	1753.0	1832.1	1930.2	1979.2
45°	1621.0	1655.0	1737.9	1832.1	1884.9
47.5°	1526.8	1553.2	1636.1	1734.1	1786.9
50°	1428.8	1451.4	1534.3	1632.3	1685.1
52.5°	1323.2	1353.4	1432.5	1530.6	1579.6
55°	1221.4	1244.0	1327.0	1421.2	1470.2
57.5°	1115.9	1138.5	1217.7	1311.9	1357.1
60°	1014.1	1036.7	1108.3	1202.6	1247.8
62.5°	901.0	923.6	995.2	1093.3	1138.5
65°	799.2	818.1	882.1	972.6	1025.4
67.5°	697.4	716.3	776.6	863.3	904.8
70°	595.6	610.7	671.0	750.2	795.4
72.5°	497.6	512.7	573.0	644.6	682.3
75°	399.6	418.5	471.2	542.9	576.8
77.5°	309.1	328.0	373.2	437.3	467.5
80°	226.2	241.3	282.7	331.7	358.1
82.5°	150.8	162.1	192.3	233.7	252.6
85°	82.9	86.7	109.3	135.7	143.3
87.5°	33.9	33.9	41.5	45.2	49.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)