

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: P385272

Luminaire Tested: **14ID-70-L840-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-70-L840-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

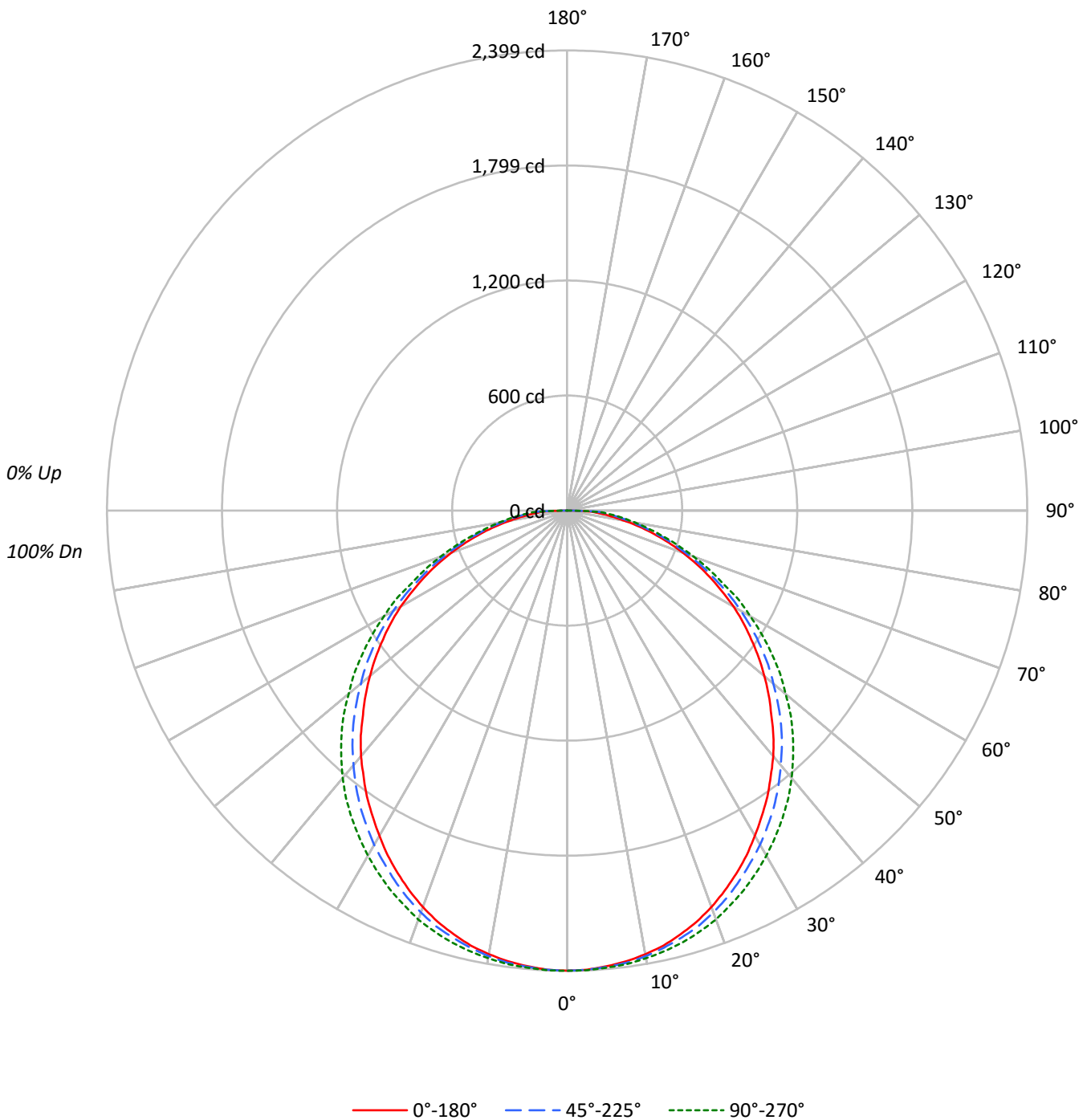
Lumens per Lamp: N/A
Luminaire Lumens: 6957.8 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 65.6
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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CATALOG NUMBER: 14ID-70-L840-CNV

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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6455	6455	6455
5°	6417	6369	6368
10°	6370	6283	6291
15°	6300	6177	6214
20°	6206	6058	6125
25°	6081	5911	6011
30°	5940	5761	5887
35°	5809	5603	5759
40°	5674	5418	5609
45°	5499	5233	5429
50°	5354	5000	5194
55°	5191	4768	4936
60°	5031	4484	4609
65°	4801	4132	4192
70°	4521	3749	3788
75°	4200	3326	3317
80°	3764	2871	2854
85°	3558	2498	2423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.0	3.3
10°-20°	650.5	9.3
20°-30°	981.6	14.1
30°-40°	1178.2	16.9
40°-50°	1219.4	17.5
50°-60°	1104.7	15.9
60°-70°	851.1	12.2
70°-80°	526.6	7.6
80°-90°	218.7	3.1
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°	1859.1	26.7
0°-40°	3037.3	43.7
0°-60°	5361.4	77.1
0°-90°	6957.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6957.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2399	2399	2399	2399	2399	
5°	2384	2384	2388	2388	2392	227
15°	2287	2290	2305	2319	2330	645
25°	2088	2095	2128	2164	2182	962
35°	1820	1834	1882	1932	1958	1138
45°	1505	1527	1578	1636	1664	1164
55°	1172	1190	1230	1284	1303	1050
65°	821	829	854	890	894	812
75°	467	478	496	517	517	494
85°	170	188	217	232	228	184
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2398.9	2398.9	2398.9	2398.9	2398.9
2.5°	2395.3	2395.3	2395.3	2395.3	2398.9
5°	2384.4	2384.4	2388.1	2388.1	2391.7
7.5°	2370.0	2370.0	2377.2	2377.2	2384.4
10°	2348.3	2351.9	2359.1	2362.7	2370.0
12.5°	2322.9	2322.9	2333.8	2344.6	2351.9
15°	2286.7	2290.4	2304.8	2319.3	2330.2
17.5°	2246.9	2250.6	2272.3	2286.7	2301.2
20°	2199.9	2203.5	2228.9	2250.6	2268.7
22.5°	2145.6	2152.9	2181.8	2210.8	2225.2
25°	2087.7	2095.0	2127.5	2163.7	2181.8
27.5°	2026.2	2037.1	2069.6	2109.4	2131.2
30°	1957.5	1972.0	2011.8	2055.2	2076.9
32.5°	1888.7	1903.2	1946.6	1997.3	2019.0
35°	1820.0	1834.5	1881.5	1932.2	1957.5
37.5°	1744.0	1758.5	1809.1	1863.4	1892.4
40°	1671.6	1686.1	1733.1	1794.7	1820.0
42.5°	1592.0	1606.5	1657.2	1715.1	1744.0
45°	1505.2	1526.9	1577.6	1635.5	1664.4
47.5°	1425.6	1443.7	1490.7	1552.2	1581.2
50°	1342.4	1360.5	1403.9	1465.4	1487.1
52.5°	1259.2	1277.2	1320.7	1378.6	1400.3
55°	1172.3	1190.4	1230.2	1284.5	1302.6
57.5°	1089.1	1103.6	1139.8	1190.4	1204.9
60°	1002.3	1016.7	1045.7	1092.7	1103.6
62.5°	908.2	919.0	951.6	995.0	1009.5
65°	821.3	828.6	853.9	890.1	893.7
67.5°	730.9	738.1	763.5	788.8	799.6
70°	640.4	651.3	669.4	694.7	701.9
72.5°	553.6	564.4	582.5	604.2	607.9
75°	466.8	477.6	495.7	517.4	517.4
77.5°	383.5	394.4	416.1	434.2	434.2
80°	300.3	318.4	340.1	358.2	358.2
82.5°	231.6	246.0	275.0	289.5	289.5
85°	170.1	188.1	217.1	231.6	228.0
87.5°	123.0	141.1	166.4	177.3	173.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)