

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: P385380

Luminaire Tested: **24ID-70-L840-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385380
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: 24ID-70-L840-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

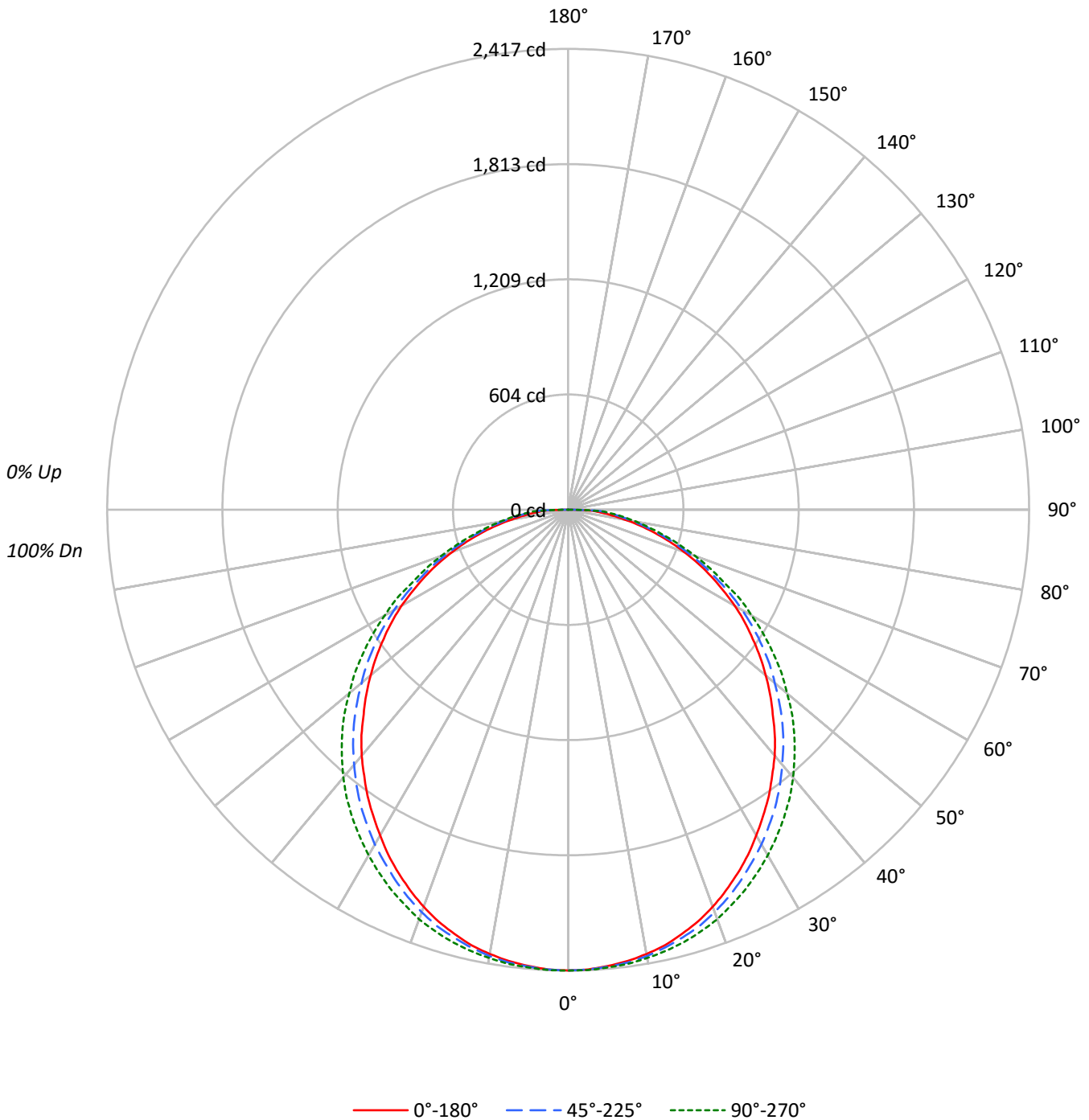
Lumens per Lamp: N/A
Luminaire Lumens: 7010.2 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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	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°	3252	3252	3252
5°	3233	3225	3231
10°	3209	3198	3215
15°	3174	3160	3199
20°	3126	3115	3176
25°	3063	3056	3141
30°	2992	2996	3102
35°	2927	2932	3061
40°	2858	2855	3010
45°	2770	2779	2945
50°	2697	2679	2853
55°	2615	2582	2751
60°	2534	2459	2615
65°	2418	2302	2432
70°	2278	2135	2264
75°	2116	1952	2067
80°	1896	1769	1899
85°	1791	1679	1816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	3.3
10°-20°	655.4	9.3
20°-30°	989.0	14.1
30°-40°	1187.1	16.9
40°-50°	1228.5	17.5
50°-60°	1113.0	15.9
60°-70°	857.5	12.2
70°-80°	530.6	7.6
80°-90°	220.4	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°	1873.1	26.7
0°-40°	3060.2	43.7
0°-60°	5401.7	77.1
0°-90°	7010.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7010.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2417	2417	2417	2417	2417	
5°	2402	2402	2406	2406	2410	228
15°	2304	2308	2322	2337	2348	650
25°	2104	2111	2144	2180	2198	969
35°	1834	1848	1896	1947	1972	1146
45°	1516	1538	1589	1648	1677	1173
55°	1181	1199	1240	1294	1312	1058
65°	828	835	860	897	900	818
75°	470	481	499	521	521	498
85°	171	190	219	233	230	185
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2417.0	2417.0	2417.0	2417.0	2417.0
2.5°	2413.3	2413.3	2413.3	2413.3	2417.0
5°	2402.4	2402.4	2406.0	2406.0	2409.7
7.5°	2387.8	2387.8	2395.1	2395.1	2402.4
10°	2365.9	2369.6	2376.9	2380.5	2387.8
12.5°	2340.4	2340.4	2351.4	2362.3	2369.6
15°	2304.0	2307.6	2322.2	2336.8	2347.7
17.5°	2263.9	2267.5	2289.4	2304.0	2318.5
20°	2216.5	2220.1	2245.6	2267.5	2285.7
22.5°	2161.8	2169.1	2198.2	2227.4	2242.0
25°	2103.5	2110.8	2143.6	2180.0	2198.2
27.5°	2041.5	2052.4	2085.2	2125.3	2147.2
30°	1972.2	1986.8	2026.9	2070.7	2092.5
32.5°	1903.0	1917.5	1961.3	2012.3	2034.2
35°	1833.7	1848.3	1895.7	1946.7	1972.2
37.5°	1757.1	1771.7	1822.8	1877.4	1906.6
40°	1684.2	1698.8	1746.2	1808.2	1833.7
42.5°	1604.0	1618.6	1669.6	1728.0	1757.1
45°	1516.5	1538.4	1589.4	1647.8	1676.9
47.5°	1436.3	1454.6	1502.0	1563.9	1593.1
50°	1352.5	1370.7	1414.5	1476.4	1498.3
52.5°	1268.6	1286.9	1330.6	1388.9	1410.8
55°	1181.1	1199.4	1239.5	1294.2	1312.4
57.5°	1097.3	1111.9	1148.3	1199.4	1214.0
60°	1009.8	1024.4	1053.6	1100.9	1111.9
62.5°	915.0	926.0	958.8	1002.5	1017.1
65°	827.5	834.8	860.3	896.8	900.4
67.5°	736.4	743.7	769.2	794.7	805.7
70°	645.3	656.2	674.4	699.9	707.2
72.5°	557.8	568.7	586.9	608.8	612.4
75°	470.3	481.2	499.4	521.3	521.3
77.5°	386.4	397.4	419.2	437.5	437.5
80°	302.6	320.8	342.7	360.9	360.9
82.5°	233.3	247.9	277.1	291.6	291.6
85°	171.3	189.6	218.7	233.3	229.7
87.5°	123.9	142.2	167.7	178.6	175.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)