

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: P385254

Luminaire Tested: **14ID-50-L830-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385254
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-50-L830-CNV
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

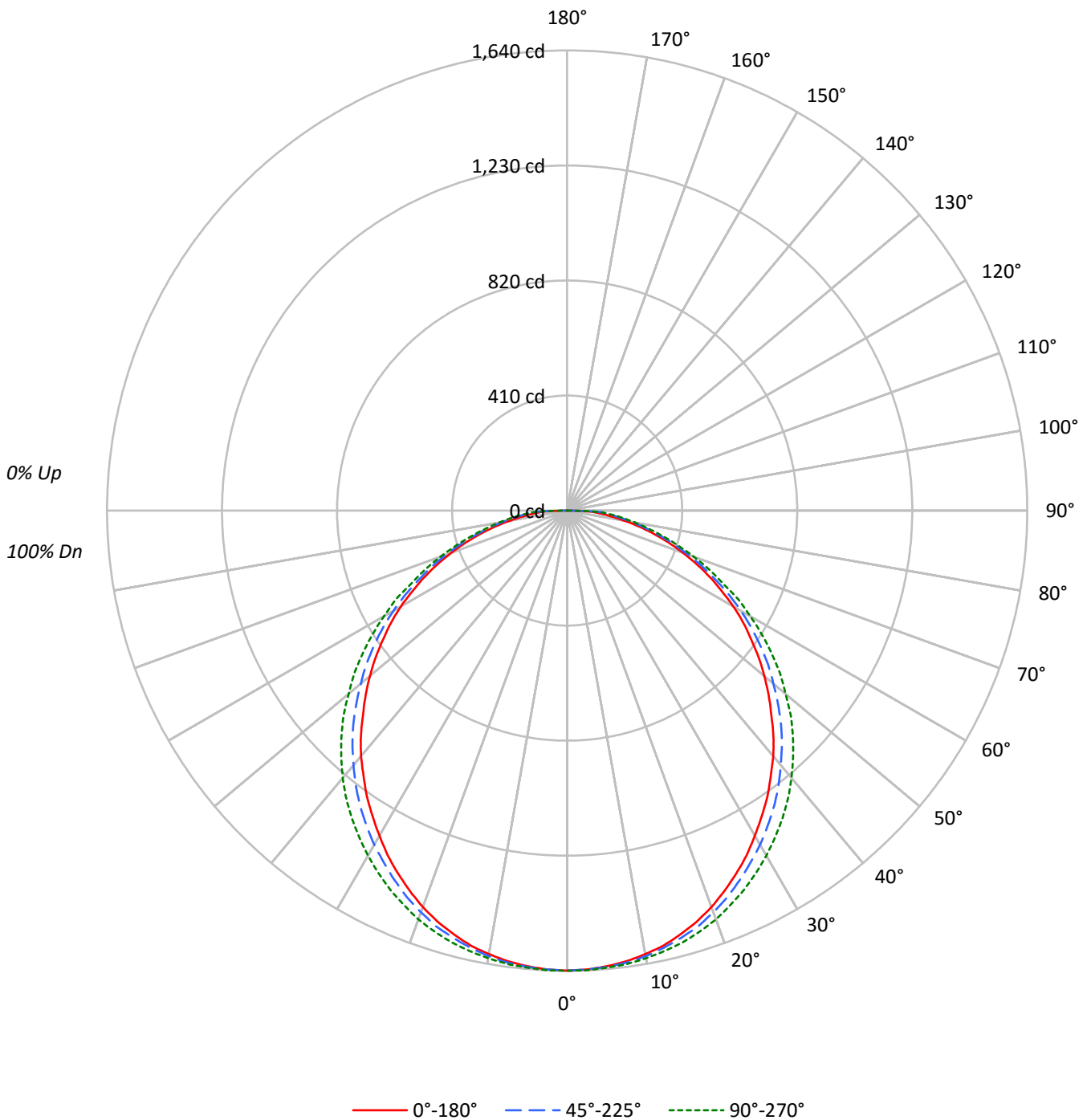
Lumens per Lamp: N/A
Luminaire Lumens: 4755.8 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 43.1
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	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°	4412	4412	4412
5°	4387	4353	4353
10°	4354	4295	4300
15°	4306	4222	4247
20°	4242	4141	4187
25°	4156	4040	4109
30°	4060	3938	4024
35°	3971	3830	3936
40°	3878	3703	3834
45°	3759	3577	3711
50°	3659	3417	3550
55°	3548	3259	3374
60°	3439	3065	3150
65°	3281	2824	2866
70°	3090	2562	2589
75°	2870	2273	2267
80°	2573	1963	1950
85°	2430	1707	1656



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	3.3
10°-20°	444.6	9.3
20°-30°	671.0	14.1
30°-40°	805.4	16.9
40°-50°	833.5	17.5
50°-60°	755.1	15.9
60°-70°	581.7	12.2
70°-80°	360.0	7.6
80°-90°	149.5	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°	1270.7	26.7
0°-40°	2076.1	43.7
0°-60°	3664.6	77.1
0°-90°	4755.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4755.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1630	1630	1632	1632	1635	155
15°	1563	1566	1575	1585	1593	441
25°	1427	1432	1454	1479	1491	657
35°	1244	1254	1286	1321	1338	778
45°	1029	1044	1078	1118	1138	796
55°	801	814	841	878	890	717
65°	561	566	584	608	611	555
75°	319	326	339	354	354	338
85°	116	129	148	158	156	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1639.7	1639.7	1639.7	1639.7	1639.7
2.5°	1637.2	1637.2	1637.2	1637.2	1639.7
5°	1629.8	1629.8	1632.3	1632.3	1634.8
7.5°	1619.9	1619.9	1624.9	1624.9	1629.8
10°	1605.1	1607.6	1612.5	1615.0	1619.9
12.5°	1587.8	1587.8	1595.2	1602.6	1607.6
15°	1563.0	1565.5	1575.4	1585.3	1592.7
17.5°	1535.8	1538.3	1553.1	1563.0	1572.9
20°	1503.7	1506.2	1523.5	1538.3	1550.7
22.5°	1466.6	1471.5	1491.3	1511.1	1521.0
25°	1427.0	1432.0	1454.2	1478.9	1491.3
27.5°	1385.0	1392.4	1414.6	1441.9	1456.7
30°	1338.0	1347.9	1375.1	1404.8	1419.6
32.5°	1291.0	1300.9	1330.6	1365.2	1380.0
35°	1244.0	1253.9	1286.0	1320.7	1338.0
37.5°	1192.1	1202.0	1236.6	1273.7	1293.5
40°	1142.6	1152.5	1184.6	1226.7	1244.0
42.5°	1088.2	1098.1	1132.7	1172.3	1192.1
45°	1028.8	1043.7	1078.3	1117.9	1137.7
47.5°	974.4	986.8	1018.9	1061.0	1080.8
50°	917.5	929.9	959.6	1001.6	1016.5
52.5°	860.7	873.0	902.7	942.3	957.1
55°	801.3	813.7	840.9	878.0	890.3
57.5°	744.4	754.3	779.0	813.7	823.6
60°	685.1	695.0	714.7	746.9	754.3
62.5°	620.8	628.2	650.4	680.1	690.0
65°	561.4	566.4	583.7	608.4	610.9
67.5°	499.6	504.5	521.8	539.1	546.6
70°	437.7	445.2	457.5	474.8	479.8
72.5°	378.4	385.8	398.2	413.0	415.5
75°	319.0	326.5	338.8	353.7	353.7
77.5°	262.2	269.6	284.4	296.8	296.8
80°	205.3	217.6	232.5	244.8	244.8
82.5°	158.3	168.2	188.0	197.9	197.9
85°	116.2	128.6	148.4	158.3	155.8
87.5°	84.1	96.5	113.8	121.2	118.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)