

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: P383846

Luminaire Tested: **24ID-45-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-45-L830-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

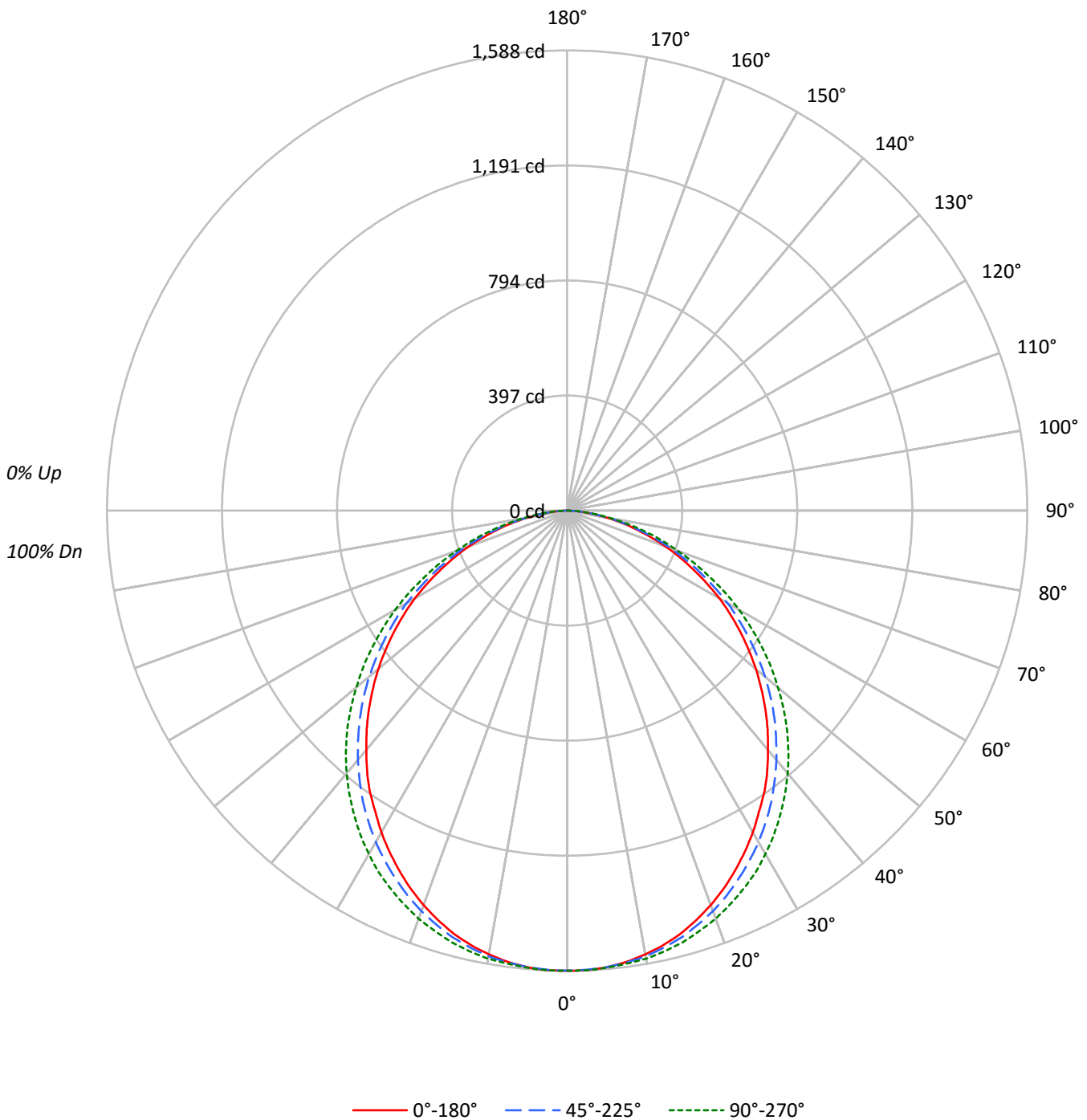
Lumens per Lamp: N/A
Luminaire Lumens: 4312.4 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2137	2137	2137
5°	2136	2136	2139
10°	2125	2134	2146
15°	2106	2124	2148
20°	2075	2106	2146
25°	2035	2080	2138
30°	1992	2052	2127
35°	1949	2017	2106
40°	1894	1974	2080
45°	1841	1924	2043
50°	1780	1866	1989
55°	1710	1796	1924
60°	1635	1722	1845
65°	1526	1616	1727
70°	1417	1493	1596
75°	1263	1331	1444
80°	1059	1110	1210
85°	804	804	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	3.5
10°-20°	430.0	10.0
20°-30°	646.6	15.0
30°-40°	769.2	17.8
40°-50°	782.6	18.1
50°-60°	688.8	16.0
60°-70°	505.3	11.7
70°-80°	274.3	6.4
80°-90°	65.5	1.5
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°	1226.9	28.4
0°-40°	1996.0	46.3
0°-60°	3467.5	80.4
0°-90°	4312.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4312.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1581	1579	1581	1581	1584	150
15°	1512	1514	1525	1534	1542	426
25°	1371	1380	1401	1425	1440	631
35°	1187	1195	1228	1265	1282	741
45°	968	976	1011	1054	1074	746
55°	729	740	766	803	820	652
65°	479	488	508	529	542	476
75°	243	247	256	269	278	258
85°	52	52	52	56	59	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1587.9	1587.9	1587.9	1587.9	1587.9
2.5°	1587.9	1585.7	1585.7	1585.7	1587.9
5°	1581.4	1579.2	1581.4	1581.4	1583.5
7.5°	1570.5	1568.3	1572.7	1574.8	1577.0
10°	1555.3	1555.3	1561.8	1566.2	1570.5
12.5°	1535.8	1538.0	1544.5	1551.0	1557.5
15°	1511.9	1514.1	1525.0	1533.6	1542.3
17.5°	1481.6	1485.9	1498.9	1511.9	1520.6
20°	1449.0	1455.5	1470.7	1488.1	1498.9
22.5°	1412.2	1420.8	1438.2	1459.9	1470.7
25°	1370.9	1379.6	1401.3	1425.2	1440.4
27.5°	1327.6	1338.4	1362.3	1390.5	1407.8
30°	1282.0	1292.8	1321.0	1351.4	1368.8
32.5°	1232.1	1245.1	1275.5	1310.2	1327.6
35°	1186.6	1195.2	1227.8	1264.6	1282.0
37.5°	1134.5	1145.3	1175.7	1214.8	1234.3
40°	1078.1	1088.9	1123.7	1162.7	1184.4
42.5°	1023.9	1032.5	1067.3	1110.6	1130.2
45°	967.5	976.1	1010.9	1054.2	1073.8
47.5°	908.9	919.7	952.3	993.5	1013.0
50°	850.3	859.0	891.5	930.6	950.1
52.5°	789.6	798.3	828.6	867.7	887.2
55°	728.9	739.7	765.7	802.6	820.0
57.5°	668.1	679.0	702.8	737.5	752.7
60°	607.4	616.1	639.9	670.3	685.5
62.5°	542.3	548.8	572.7	603.0	616.1
65°	479.4	488.1	507.6	529.3	542.3
67.5°	420.8	425.2	442.5	466.4	475.1
70°	360.1	364.4	379.6	399.1	405.6
72.5°	299.4	305.9	316.7	334.1	342.7
75°	243.0	247.3	256.0	269.0	277.7
77.5°	188.7	190.9	197.4	208.2	214.8
80°	136.7	138.8	143.2	151.8	156.2
82.5°	91.1	93.3	95.4	99.8	104.1
85°	52.1	52.1	52.1	56.4	58.6
87.5°	19.5	17.4	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)