

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: P383850

Luminaire Tested: **24ID-50-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383850
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-50-L830-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

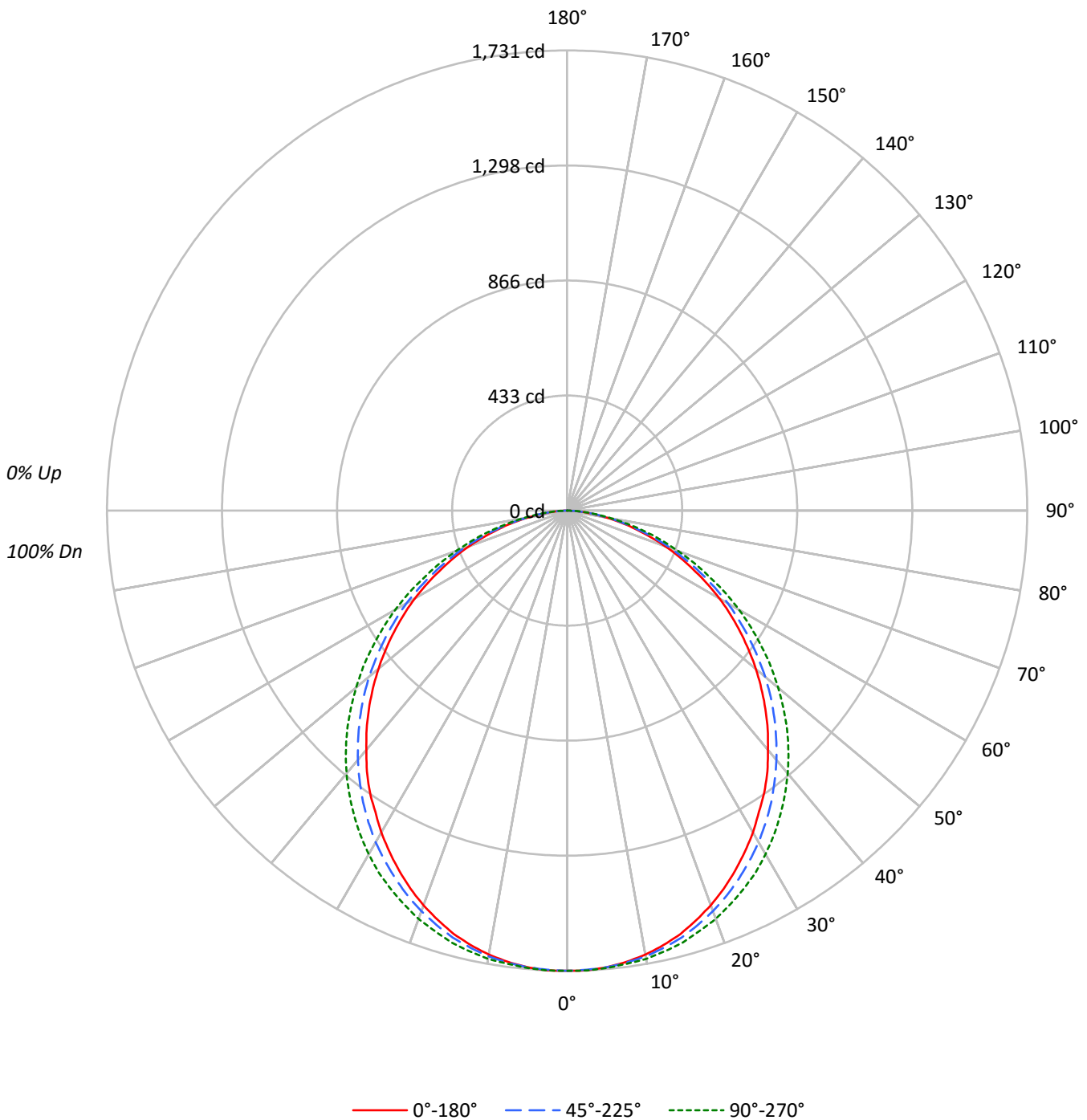
Lumens per Lamp: N/A
Luminaire Lumens: 4701.8 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.1
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	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°	2329	2329	2329
5°	2329	2329	2332
10°	2317	2327	2339
15°	2296	2316	2342
20°	2262	2296	2340
25°	2219	2268	2331
30°	2172	2238	2319
35°	2125	2199	2296
40°	2064	2152	2268
45°	2007	2097	2228
50°	1941	2035	2168
55°	1864	1958	2097
60°	1782	1877	2011
65°	1664	1762	1883
70°	1544	1628	1740
75°	1377	1451	1574
80°	1155	1210	1320
85°	877	877	986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	3.5
10°-20°	468.8	10.0
20°-30°	705.0	15.0
30°-40°	838.6	17.8
40°-50°	853.3	18.1
50°-60°	751.0	16.0
60°-70°	550.9	11.7
70°-80°	299.0	6.4
80°-90°	71.4	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°	1337.7	28.4
0°-40°	2176.3	46.3
0°-60°	3780.6	80.4
0°-90°	4701.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4701.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1731	1731	1731	1731	1731	
5°	1724	1722	1724	1724	1726	164
15°	1648	1651	1663	1672	1682	464
25°	1495	1504	1528	1554	1570	688
35°	1294	1303	1339	1379	1398	808
45°	1055	1064	1102	1149	1171	813
55°	795	806	835	875	894	711
65°	523	532	553	577	591	519
75°	265	270	279	293	303	281
85°	57	57	57	62	64	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1731.2	1731.2	1731.2	1731.2	1731.2
2.5°	1731.2	1728.9	1728.9	1728.9	1731.2
5°	1724.1	1721.8	1724.1	1724.1	1726.5
7.5°	1712.3	1710.0	1714.7	1717.1	1719.4
10°	1695.8	1695.8	1702.9	1707.6	1712.3
12.5°	1674.5	1676.8	1683.9	1691.0	1698.1
15°	1648.5	1650.8	1662.7	1672.1	1681.6
17.5°	1615.4	1620.1	1634.3	1648.5	1657.9
20°	1579.9	1587.0	1603.5	1622.4	1634.3
22.5°	1539.7	1549.1	1568.1	1591.7	1603.5
25°	1494.7	1504.2	1527.8	1553.9	1570.4
27.5°	1447.4	1459.3	1485.3	1516.0	1534.9
30°	1397.8	1409.6	1440.3	1473.4	1492.4
32.5°	1343.4	1357.6	1390.7	1428.5	1447.4
35°	1293.7	1303.2	1338.6	1378.8	1397.8
37.5°	1236.9	1248.8	1281.9	1324.4	1345.7
40°	1175.4	1187.3	1225.1	1267.7	1291.3
42.5°	1116.3	1125.8	1163.6	1210.9	1232.2
45°	1054.8	1064.3	1102.1	1149.4	1170.7
47.5°	991.0	1002.8	1038.3	1083.2	1104.5
50°	927.1	936.6	972.0	1014.6	1035.9
52.5°	860.9	870.4	903.5	946.0	967.3
55°	794.7	806.5	834.9	875.1	894.0
57.5°	728.4	740.3	766.3	804.1	820.7
60°	662.2	671.7	697.7	730.8	747.4
62.5°	591.3	598.4	624.4	657.5	671.7
65°	522.7	532.1	553.4	577.1	591.3
67.5°	458.8	463.6	482.5	508.5	518.0
70°	392.6	397.3	413.9	435.2	442.3
72.5°	326.4	333.5	345.3	364.2	373.7
75°	264.9	269.6	279.1	293.3	302.7
77.5°	205.8	208.1	215.2	227.0	234.1
80°	149.0	151.4	156.1	165.6	170.3
82.5°	99.3	101.7	104.1	108.8	113.5
85°	56.8	56.8	56.8	61.5	63.9
87.5°	21.3	18.9	18.9	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)