

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: P384182

Luminaire Tested: **24ID-45-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-45-L830-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

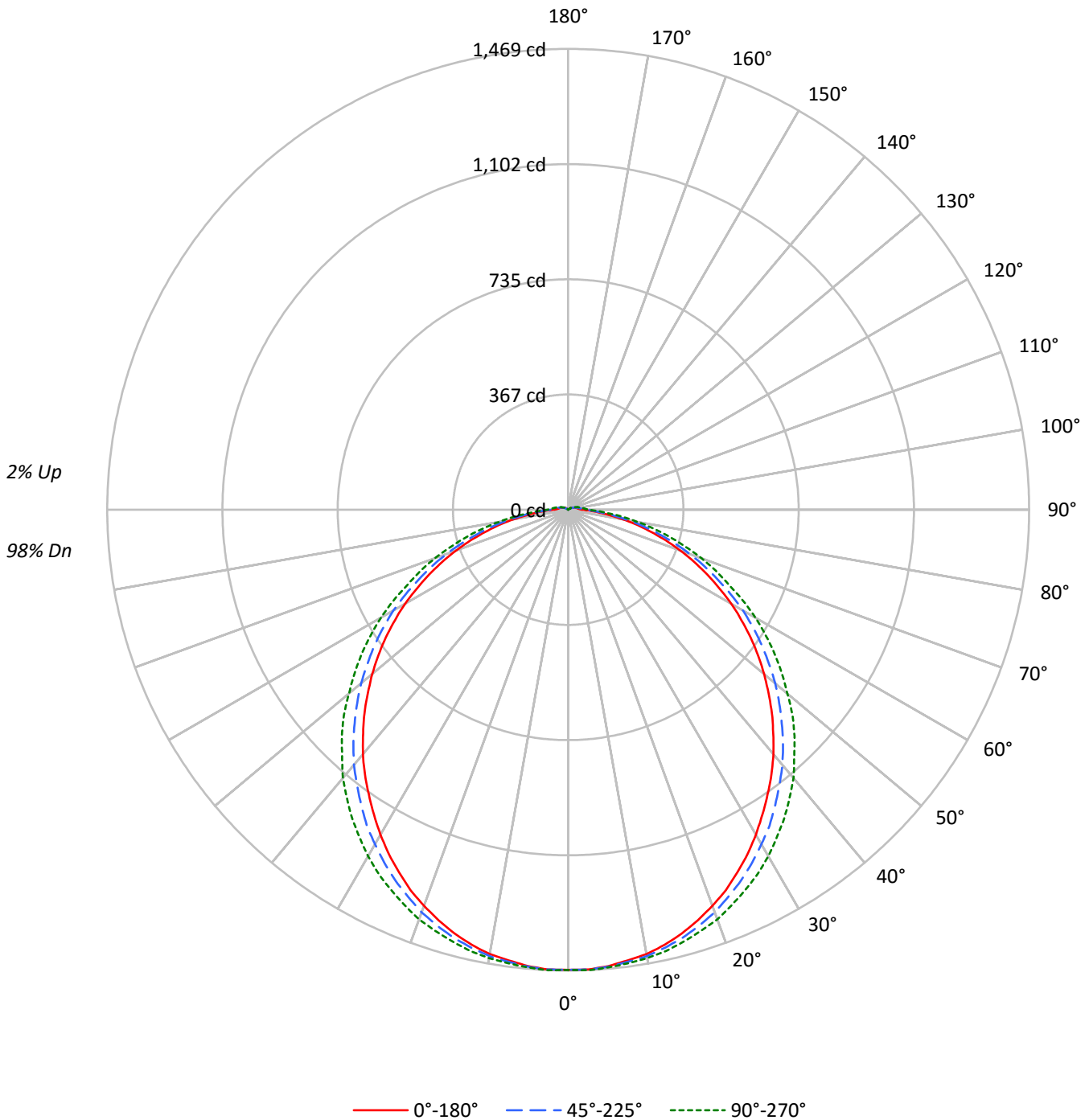
Lumens per Lamp: N/A
Luminaire Lumens: 4344.6 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1974	1974	1974
5°	1969	1968	1971
10°	1958	1959	1969
15°	1938	1944	1963
20°	1909	1924	1960
25°	1875	1897	1947
30°	1836	1865	1935
35°	1794	1832	1916
40°	1757	1798	1895
45°	1712	1754	1863
50°	1665	1713	1819
55°	1616	1662	1780
60°	1562	1608	1730
65°	1490	1524	1648
70°	1410	1445	1594
75°	1317	1337	1506
80°	1221	1214	1408
85°	1181	1129	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.2
10°-20°	398.3	9.2
20°-30°	601.3	13.8
30°-40°	720.4	16.6
40°-50°	744.9	17.1
50°-60°	674.5	15.5
60°-70°	522.0	12.0
70°-80°	320.6	7.4
80°-90°	127.4	2.9
90°-100°	46.5	1.1
100°-110°	28.5	0.7
110°-120°	14.7	0.3
120°-130°	6.3	0.1
130°-140°	0.4	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°	1138.5	26.2
0°-40°	1858.9	42.8
0°-60°	3278.3	75.5
0°-90°	4248.3	97.8
90°-120°	89.7	2.1
90°-150°	96.4	2.2
90°-180°	96.0	2.2
0°-180°	4344.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1460	1460	1463	1463	1465	139
15°	1399	1401	1412	1421	1425	394
25°	1275	1284	1304	1326	1337	588
35°	1108	1121	1150	1181	1200	694
45°	918	930	963	1002	1020	708
55°	709	725	753	786	804	634
65°	489	500	524	551	564	484
75°	273	286	300	319	335	291
85°	95	101	110	121	128	94
90°	44	51	55	62	66	26
95°	33	37	42	46	51	26
105°	24	24	26	29	31	26
115°	15	13	13	15	18	16
125°	9	7	4	7	9	8
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1467.0	1467.0	1467.0	1467.0	1467.0
2.5°	1467.0	1464.8	1467.0	1467.0	1469.2
5°	1460.4	1460.4	1462.6	1462.6	1464.8
7.5°	1449.3	1449.3	1453.8	1456.0	1458.2
10°	1438.3	1438.3	1444.9	1447.1	1451.6
12.5°	1420.7	1422.9	1429.5	1436.1	1440.5
15°	1398.7	1400.9	1411.9	1420.7	1425.1
17.5°	1372.3	1376.7	1389.9	1403.1	1407.5
20°	1343.6	1350.2	1365.6	1381.1	1389.9
22.5°	1312.8	1317.2	1334.8	1354.6	1363.4
25°	1275.3	1284.1	1304.0	1326.0	1337.0
27.5°	1237.9	1246.7	1268.7	1295.2	1308.4
30°	1196.0	1204.9	1231.3	1259.9	1275.3
32.5°	1152.0	1163.0	1193.8	1222.5	1237.9
35°	1107.9	1121.2	1149.8	1180.6	1200.4
37.5°	1063.9	1074.9	1105.7	1138.8	1158.6
40°	1017.6	1028.6	1061.7	1094.7	1116.7
42.5°	967.0	980.2	1013.2	1048.5	1066.1
45°	918.5	929.5	962.6	1002.2	1019.8
47.5°	865.6	881.1	911.9	949.3	969.2
50°	815.0	828.2	861.2	896.5	911.9
52.5°	762.1	775.3	806.2	841.4	859.0
55°	709.3	724.7	753.3	786.3	804.0
57.5°	654.2	669.6	698.2	726.9	746.7
60°	601.3	616.7	643.2	671.8	689.4
62.5°	541.9	555.1	583.7	614.5	627.8
65°	489.0	500.0	524.2	550.7	563.9
67.5°	433.9	447.1	469.2	493.4	508.8
70°	378.9	394.3	411.9	433.9	451.5
72.5°	326.0	339.2	354.6	376.7	392.1
75°	273.1	286.3	299.6	319.4	334.8
77.5°	226.9	233.5	246.7	264.3	279.7
80°	176.2	185.0	196.0	213.7	224.7
82.5°	132.2	141.0	149.8	163.0	174.0
85°	94.7	101.3	110.1	121.1	127.8
87.5°	63.9	70.5	77.1	85.9	92.5
90°	44.1	50.7	55.1	61.7	66.1
92.5°	37.4	41.9	46.3	50.7	55.1
95°	33.0	37.4	41.9	46.3	50.7
97.5°	30.8	33.0	37.4	41.9	44.1
100°	28.6	30.8	33.0	37.4	39.6
102.5°	26.4	26.4	30.8	33.0	35.2
105°	24.2	24.2	26.4	28.6	30.8
107.5°	22.0	22.0	24.2	24.2	28.6
110°	19.8	17.6	19.8	19.8	24.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.6	15.4	17.6	17.6	19.8
115°	15.4	13.2	13.2	15.4	17.6
117.5°	13.2	11.0	11.0	11.0	15.4
120°	13.2	11.0	8.8	8.8	13.2
122.5°	11.0	8.8	6.6	8.8	11.0
125°	8.8	6.6	4.4	6.6	8.8
127.5°	6.6	6.6	2.2	4.4	6.6
130°	6.6	4.4	2.2	4.4	4.4
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)