

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: P384702

Luminaire Tested: **24ID-65-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-65-L830-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

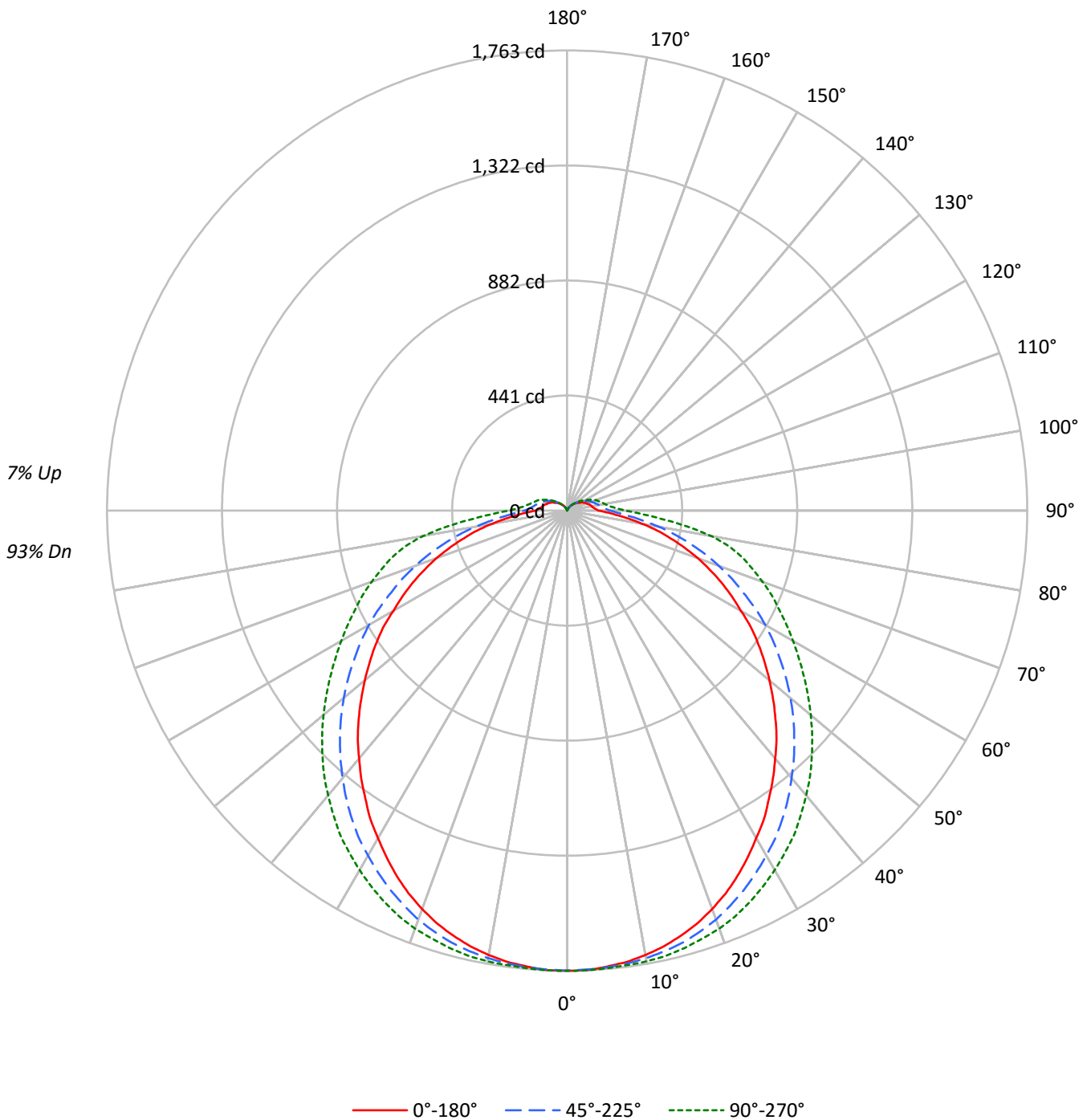
Lumens per Lamp: N/A
Luminaire Lumens: 6168.6 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 60.5
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



TEST NUMBER: P384702
CATALOG NUMBER: 24ID-65-L830-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384702

CATALOG NUMBER: 24ID-65-L830-CFD3

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2372	2372	2372
5°	2355	2345	2351
10°	2336	2325	2344
15°	2310	2305	2339
20°	2274	2278	2334
25°	2228	2241	2322
30°	2173	2202	2305
35°	2121	2164	2291
40°	2069	2115	2264
45°	2022	2067	2243
50°	1972	2019	2219
55°	1928	1966	2204
60°	1867	1919	2212
65°	1831	1846	2248
70°	1787	1783	2333
75°	1725	1691	2465
80°	1672	1578	2539
85°	1690	1454	2288



TEST NUMBER: P384702

CATALOG NUMBER: 24ID-65-L830-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	2.7
10°-20°	483.0	7.8
20°-30°	737.9	12.0
30°-40°	898.3	14.6
40°-50°	949.4	15.4
50°-60°	896.2	14.5
60°-70°	754.0	12.2
70°-80°	543.6	8.8
80°-90°	286.7	4.6
90°-100°	153.5	2.5
100°-110°	116.5	1.9
110°-120°	84.5	1.4
120°-130°	53.1	0.9
130°-140°	28.7	0.5
140°-150°	12.5	0.2
150°-160°	3.4	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1388.1	22.5
0°-40°	2286.4	37.1
0°-60°	4132.0	67.0
0°-90°	5716.3	92.7
90°-120°	354.5	5.7
90°-150°	448.8	7.3
90°-180°	452.0	7.3
0°-180°	6168.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1754	1754	1757	1757	1760	167
15°	1686	1692	1714	1726	1735	476
25°	1544	1563	1603	1640	1655	711
35°	1348	1378	1440	1495	1517	844
45°	1129	1163	1231	1298	1326	871
55°	895	935	997	1071	1108	800
65°	652	689	744	837	895	645
75°	409	443	486	581	695	434
85°	188	212	237	295	360	176
90°	120	142	163	194	222	69
95°	105	120	138	157	169	83
105°	89	98	111	123	129	93
115°	71	77	86	92	98	71
125°	52	52	62	62	65	47
135°	37	34	37	37	40	28
145°	22	18	18	18	22	14
155°	9	9	3	6	9	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384702

CATALOG NUMBER: 24ID-65-L830-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1762.8	1762.8	1762.8	1762.8	1762.8
2.5°	1762.8	1759.7	1759.7	1759.7	1762.8
5°	1753.5	1753.5	1756.6	1756.6	1759.7
7.5°	1744.3	1744.3	1750.5	1753.5	1756.6
10°	1728.9	1732.0	1741.2	1747.4	1753.5
12.5°	1710.5	1713.5	1728.9	1741.2	1747.4
15°	1685.9	1692.0	1713.5	1725.9	1735.1
17.5°	1658.2	1667.4	1692.0	1710.5	1719.7
20°	1624.3	1636.6	1667.4	1692.0	1704.3
22.5°	1587.4	1599.7	1636.6	1667.4	1682.8
25°	1544.3	1562.8	1602.8	1639.7	1655.1
27.5°	1498.2	1519.7	1565.9	1608.9	1624.3
30°	1449.0	1473.6	1525.9	1572.0	1590.5
32.5°	1402.8	1427.4	1485.9	1535.1	1553.6
35°	1347.5	1378.2	1439.7	1495.1	1516.7
37.5°	1295.2	1325.9	1390.5	1449.0	1470.5
40°	1239.8	1270.5	1338.2	1402.8	1424.4
42.5°	1187.5	1218.2	1285.9	1353.6	1378.2
45°	1129.0	1162.9	1230.6	1298.2	1325.9
47.5°	1070.6	1104.4	1175.2	1245.9	1273.6
50°	1012.1	1049.0	1116.7	1187.5	1218.2
52.5°	953.7	990.6	1058.3	1132.1	1162.9
55°	895.2	935.2	996.7	1070.6	1107.5
57.5°	836.8	876.8	938.3	1015.2	1052.1
60°	769.1	815.2	876.8	956.8	999.8
62.5°	710.6	750.6	812.2	895.2	947.5
65°	652.2	689.1	744.5	836.8	895.2
67.5°	590.7	630.7	683.0	769.1	849.1
70°	532.2	566.1	618.4	707.6	796.8
72.5°	470.7	504.5	553.7	646.0	744.5
75°	409.2	443.0	486.1	581.4	695.3
77.5°	353.8	381.5	421.5	513.8	636.8
80°	292.3	319.9	356.9	439.9	559.9
82.5°	236.9	261.5	292.3	366.1	461.5
85°	187.7	212.3	236.9	295.3	359.9
87.5°	150.7	169.2	193.8	236.9	280.0
90°	120.0	141.5	163.0	193.8	221.5
92.5°	110.7	129.2	147.7	172.3	190.7
95°	104.6	120.0	138.4	156.9	169.2
97.5°	98.4	113.8	129.2	147.7	156.9
100°	95.4	107.7	123.1	138.4	144.6
102.5°	92.3	101.5	116.9	129.2	138.4
105°	89.2	98.4	110.7	123.1	129.2
107.5°	83.1	92.3	104.6	116.9	123.1
110°	80.0	86.1	98.4	107.7	116.9



TEST NUMBER: P384702

CATALOG NUMBER: 24ID-65-L830-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	76.9	83.1	92.3	101.5	107.7
115°	70.8	76.9	86.1	92.3	98.4
117.5°	67.7	70.8	80.0	83.1	89.2
120°	61.5	64.6	73.8	76.9	80.0
122.5°	55.4	58.5	67.7	67.7	73.8
125°	52.3	52.3	61.5	61.5	64.6
127.5°	49.2	49.2	55.4	55.4	58.5
130°	43.1	43.1	49.2	49.2	49.2
132.5°	40.0	36.9	43.1	43.1	46.1
135°	36.9	33.8	36.9	36.9	40.0
137.5°	30.8	30.8	33.8	30.8	33.8
140°	27.7	24.6	27.7	27.7	30.8
142.5°	24.6	21.5	24.6	21.5	24.6
145°	21.5	18.5	18.5	18.5	21.5
147.5°	18.5	15.4	15.4	15.4	18.5
150°	15.4	12.3	12.3	12.3	15.4
152.5°	12.3	9.2	6.2	9.2	12.3
155°	9.2	9.2	3.1	6.2	9.2
157.5°	6.2	6.2	0.0	3.1	6.2
160°	3.1	3.1	0.0	3.1	3.1
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)