

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: P384586

Luminaire Tested: **14ID-55-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384586
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: 14ID-55-L830-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

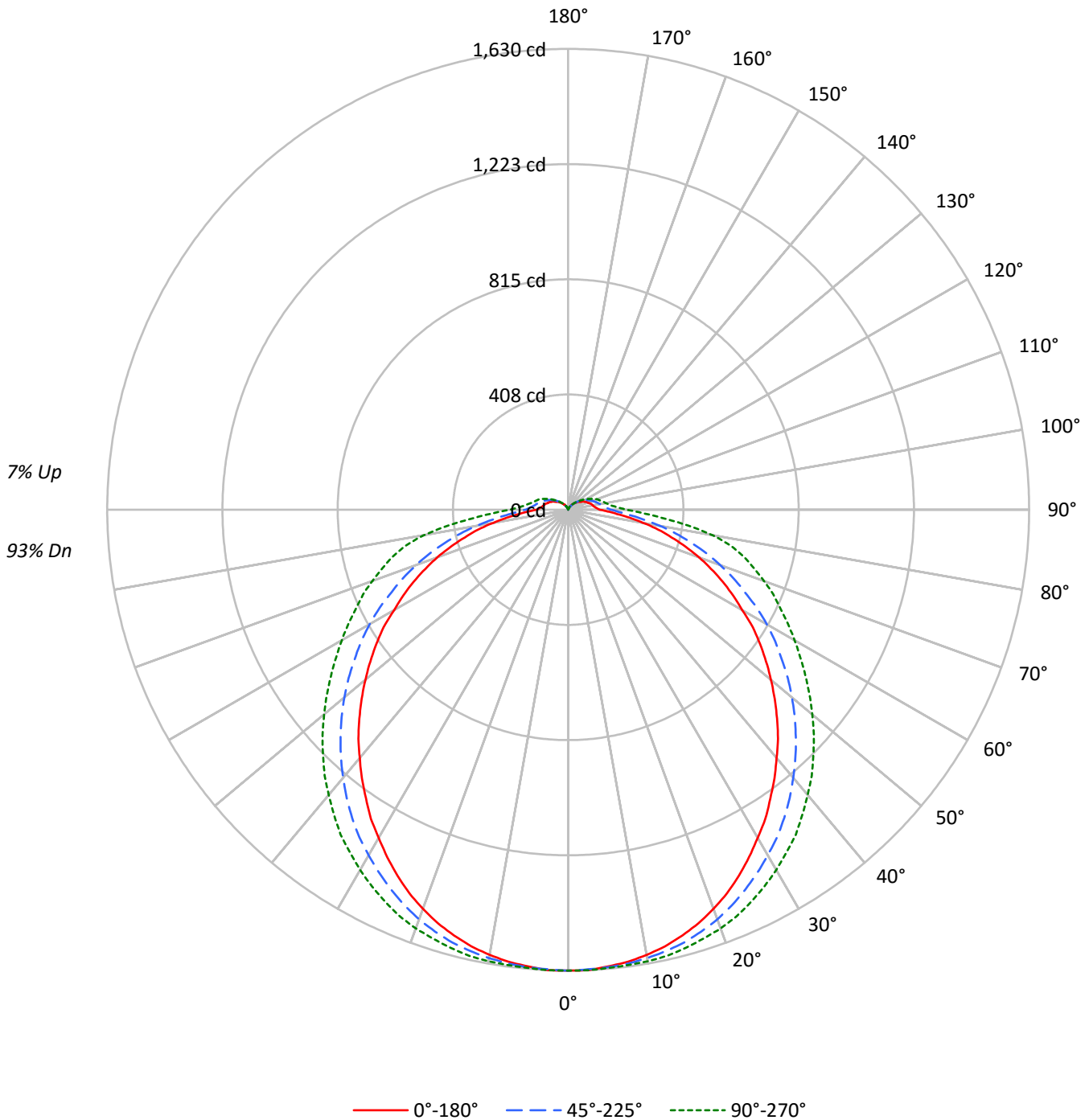
Lumens per Lamp: N/A
Luminaire Lumens: 5705.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 48.2
Input Voltage (V): NR
Input Current (Ain): 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: P384586
CATALOG NUMBER: 14ID-55-L830-CFD3

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	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°	4387	4387	4387
5°	4357	4305	4302
10°	4322	4235	4244
15°	4272	4168	4190
20°	4206	4087	4137
25°	4121	3990	4070
30°	4019	3889	3994
35°	3922	3788	3922
40°	3827	3668	3825
45°	3740	3547	3733
50°	3647	3422	3634
55°	3566	3287	3541
60°	3454	3156	3473
65°	3387	2974	3432
70°	3305	2800	3437
75°	3190	2561	3459
80°	3093	2270	3319
85°	3126	1919	2665



TEST NUMBER: P384586

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	2.7
10°-20°	446.7	7.8
20°-30°	682.5	12.0
30°-40°	830.8	14.6
40°-50°	878.1	15.4
50°-60°	828.9	14.5
60°-70°	697.3	12.2
70°-80°	502.7	8.8
80°-90°	265.1	4.6
90°-100°	141.9	2.5
100°-110°	107.8	1.9
110°-120°	78.2	1.4
120°-130°	49.1	0.9
130°-140°	26.5	0.5
140°-150°	11.6	0.2
150°-160°	3.1	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1283.8	22.5
0°-40°	2114.5	37.1
0°-60°	3821.5	67.0
0°-90°	5286.7	92.7
90°-120°	327.9	5.7
90°-150°	415.1	7.3
90°-180°	418.0	7.3
0°-180°	5705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1630	1630	1630	1630	1630	
5°	1622	1622	1625	1625	1627	154
15°	1559	1565	1585	1596	1605	440
25°	1428	1445	1482	1516	1531	658
35°	1246	1275	1332	1383	1403	780
45°	1044	1076	1138	1201	1226	806
55°	828	865	922	990	1024	740
65°	603	637	688	774	828	596
75°	378	410	450	538	643	402
85°	174	196	219	273	333	163
90°	111	131	151	179	205	64
95°	97	111	128	145	156	77
105°	82	91	102	114	120	86
115°	65	71	80	85	91	66
125°	48	48	57	57	60	44
135°	34	31	34	34	37	26
145°	20	17	17	17	20	13
155°	8	8	3	6	8	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384586

CATALOG NUMBER: 14ID-55-L830-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1630.3	1630.3	1630.3	1630.3	1630.3
2.5°	1630.3	1627.4	1627.4	1627.4	1630.3
5°	1621.8	1621.8	1624.6	1624.6	1627.4
7.5°	1613.2	1613.2	1618.9	1621.8	1624.6
10°	1599.0	1601.8	1610.4	1616.1	1621.8
12.5°	1581.9	1584.8	1599.0	1610.4	1616.1
15°	1559.2	1564.8	1584.8	1596.1	1604.7
17.5°	1533.6	1542.1	1564.8	1581.9	1590.5
20°	1502.3	1513.6	1542.1	1564.8	1576.2
22.5°	1468.1	1479.5	1513.6	1542.1	1556.3
25°	1428.3	1445.4	1482.3	1516.5	1530.7
27.5°	1385.6	1405.5	1448.2	1488.0	1502.3
30°	1340.1	1362.8	1411.2	1453.9	1471.0
32.5°	1297.4	1320.2	1374.2	1419.7	1436.8
35°	1246.2	1274.6	1331.5	1382.8	1402.7
37.5°	1197.8	1226.3	1286.0	1340.1	1360.0
40°	1146.6	1175.1	1237.7	1297.4	1317.3
42.5°	1098.2	1126.7	1189.3	1251.9	1274.6
45°	1044.2	1075.5	1138.1	1200.7	1226.3
47.5°	990.1	1021.4	1086.9	1152.3	1177.9
50°	936.1	970.2	1032.8	1098.2	1126.7
52.5°	882.0	916.1	978.7	1047.0	1075.5
55°	827.9	864.9	921.8	990.1	1024.3
57.5°	773.9	810.9	867.8	938.9	973.1
60°	711.3	754.0	810.9	884.9	924.7
62.5°	657.2	694.2	751.1	827.9	876.3
65°	603.2	637.3	688.5	773.9	827.9
67.5°	546.3	583.3	631.6	711.3	785.3
70°	492.2	523.5	571.9	654.4	736.9
72.5°	435.3	466.6	512.1	597.5	688.5
75°	378.4	409.7	449.5	537.7	643.0
77.5°	327.2	352.8	389.8	475.1	589.0
80°	270.3	295.9	330.0	406.9	517.8
82.5°	219.1	241.8	270.3	338.6	426.8
85°	173.6	196.3	219.1	273.1	332.9
87.5°	139.4	156.5	179.2	219.1	258.9
90°	111.0	130.9	150.8	179.2	204.9
92.5°	102.4	119.5	136.6	159.3	176.4
95°	96.7	111.0	128.0	145.1	156.5
97.5°	91.0	105.3	119.5	136.6	145.1
100°	88.2	99.6	113.8	128.0	133.7
102.5°	85.4	93.9	108.1	119.5	128.0
105°	82.5	91.0	102.4	113.8	119.5
107.5°	76.8	85.4	96.7	108.1	113.8
110°	74.0	79.7	91.0	99.6	108.1



TEST NUMBER: P384586

CATALOG NUMBER: 14ID-55-L830-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	71.1	76.8	85.4	93.9	99.6
115°	65.4	71.1	79.7	85.4	91.0
117.5°	62.6	65.4	74.0	76.8	82.5
120°	56.9	59.7	68.3	71.1	74.0
122.5°	51.2	54.1	62.6	62.6	68.3
125°	48.4	48.4	56.9	56.9	59.7
127.5°	45.5	45.5	51.2	51.2	54.1
130°	39.8	39.8	45.5	45.5	45.5
132.5°	37.0	34.1	39.8	39.8	42.7
135°	34.1	31.3	34.1	34.1	37.0
137.5°	28.5	28.5	31.3	28.5	31.3
140°	25.6	22.8	25.6	25.6	28.5
142.5°	22.8	19.9	22.8	19.9	22.8
145°	19.9	17.1	17.1	17.1	19.9
147.5°	17.1	14.2	14.2	14.2	17.1
150°	14.2	11.4	11.4	11.4	14.2
152.5°	11.4	8.5	5.7	8.5	11.4
155°	8.5	8.5	2.8	5.7	8.5
157.5°	5.7	5.7	0.0	2.8	5.7
160°	2.8	2.8	0.0	2.8	2.8
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)