

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: P384638

Luminaire Tested: **22ID-50-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384638
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: 22ID-50-L830-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

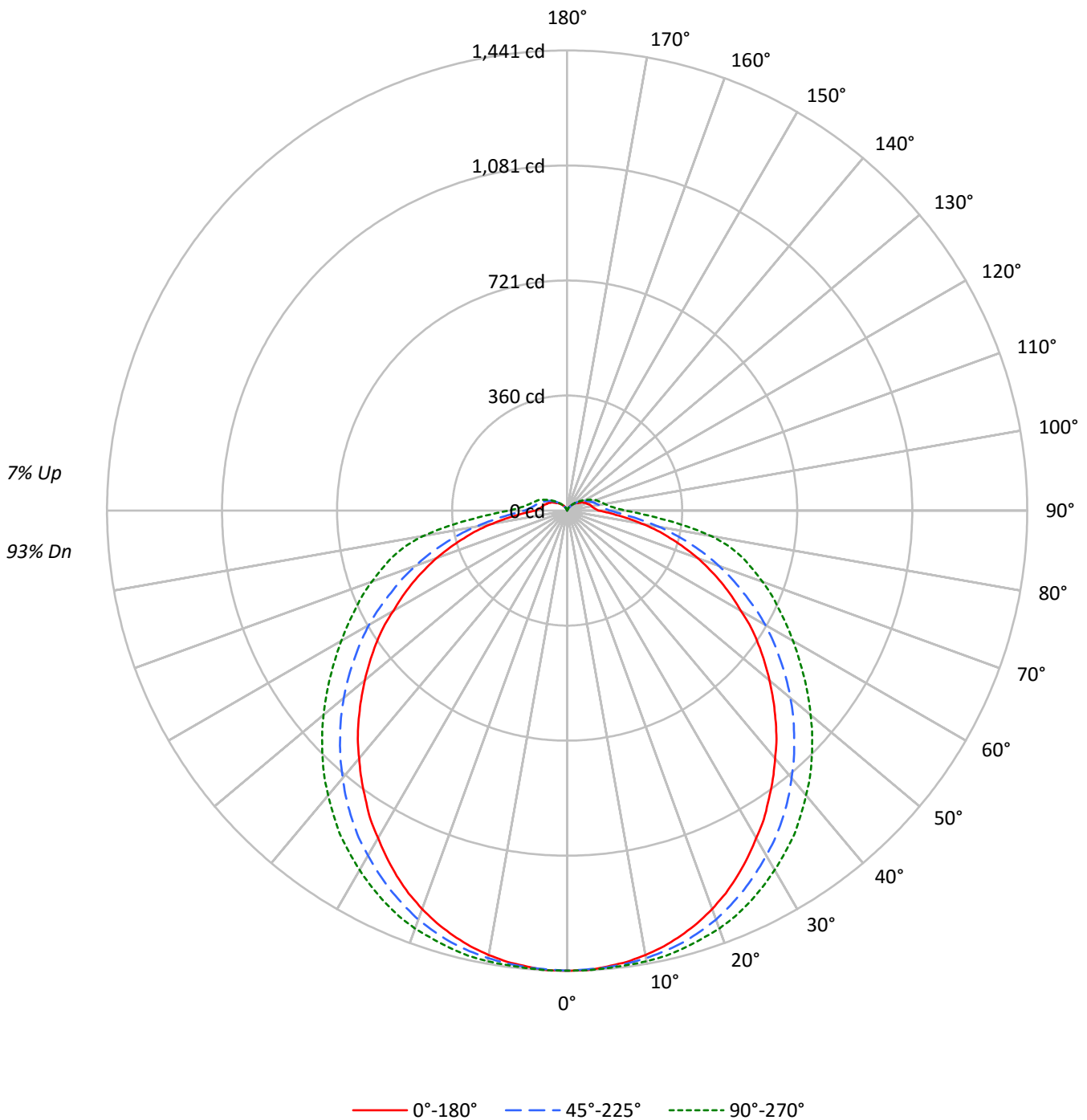
Lumens per Lamp: N/A
Luminaire Lumens: 5041.6 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 41.1
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



TEST NUMBER: P384638
CATALOG NUMBER: 22ID-50-L830-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384638

CATALOG NUMBER: 22ID-50-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°	3877	3877	3877
5°	3830	3819	3843
10°	3778	3771	3832
15°	3714	3725	3823
20°	3636	3667	3815
25°	3541	3593	3795
30°	3432	3516	3767
35°	3327	3440	3744
40°	3222	3346	3701
45°	3122	3252	3666
50°	3014	3156	3628
55°	2913	3051	3604
60°	2781	2953	3615
65°	2676	2809	3674
70°	2548	2676	3814
75°	2371	2489	4028
80°	2166	2257	4150
85°	1950	1979	3740



TEST NUMBER: P384638

CATALOG NUMBER: 22ID-50-L830-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	2.7
10°-20°	394.8	7.8
20°-30°	603.1	12.0
30°-40°	734.2	14.6
40°-50°	776.0	15.4
50°-60°	732.5	14.5
60°-70°	616.3	12.2
70°-80°	444.3	8.8
80°-90°	234.3	4.6
90°-100°	125.4	2.5
100°-110°	95.2	1.9
110°-120°	69.1	1.4
120°-130°	43.4	0.9
130°-140°	23.4	0.5
140°-150°	10.2	0.2
150°-160°	2.7	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1134.5	22.5
0°-40°	1868.7	37.1
0°-60°	3377.1	67.0
0°-90°	4672.0	92.7
90°-120°	289.8	5.7
90°-150°	366.8	7.3
90°-180°	370.0	7.3
0°-180°	5041.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1433	1433	1436	1436	1438	136
15°	1378	1383	1400	1410	1418	389
25°	1262	1277	1310	1340	1353	581
35°	1101	1126	1177	1222	1240	690
45°	923	950	1006	1061	1084	712
55°	732	764	815	875	905	654
65°	533	563	608	684	732	527
75°	334	362	397	475	568	355
85°	153	174	194	241	294	144
90°	98	116	133	158	181	56
95°	86	98	113	128	138	68
105°	73	80	90	101	106	76
115°	58	63	70	75	80	58
125°	43	43	50	50	53	38
135°	30	28	30	30	33	23
145°	18	15	15	15	18	11
155°	8	8	2	5	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: P384638

CATALOG NUMBER: 22ID-50-L830-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1440.7	1440.7	1440.7	1440.7	1440.7
2.5°	1440.7	1438.2	1438.2	1438.2	1440.7
5°	1433.2	1433.2	1435.7	1435.7	1438.2
7.5°	1425.6	1425.6	1430.7	1433.2	1435.7
10°	1413.1	1415.6	1423.1	1428.1	1433.2
12.5°	1398.0	1400.5	1413.1	1423.1	1428.1
15°	1377.9	1382.9	1400.5	1410.5	1418.1
17.5°	1355.2	1362.8	1382.9	1398.0	1405.5
20°	1327.6	1337.6	1362.8	1382.9	1392.9
22.5°	1297.4	1307.5	1337.6	1362.8	1375.3
25°	1262.2	1277.3	1310.0	1340.1	1352.7
27.5°	1224.5	1242.1	1279.8	1315.0	1327.6
30°	1184.2	1204.4	1247.1	1284.8	1299.9
32.5°	1146.5	1166.6	1214.4	1254.7	1269.7
35°	1101.3	1126.4	1176.7	1222.0	1239.6
37.5°	1058.5	1083.7	1136.5	1184.2	1201.8
40°	1013.3	1038.4	1093.7	1146.5	1164.1
42.5°	970.5	995.7	1051.0	1106.3	1126.4
45°	922.8	950.4	1005.7	1061.0	1083.7
47.5°	875.0	902.6	960.5	1018.3	1040.9
50°	827.2	857.4	912.7	970.5	995.7
52.5°	779.4	809.6	864.9	925.3	950.4
55°	731.7	764.4	814.6	875.0	905.2
57.5°	683.9	716.6	766.9	829.7	859.9
60°	628.6	666.3	716.6	782.0	817.2
62.5°	580.8	613.5	663.8	731.7	774.4
65°	533.0	563.2	608.5	683.9	731.7
67.5°	482.8	515.4	558.2	628.6	694.0
70°	435.0	462.6	505.4	578.3	651.2
72.5°	384.7	412.3	452.6	528.0	608.5
75°	334.4	362.1	397.3	475.2	568.2
77.5°	289.1	311.8	344.5	419.9	520.5
80°	238.9	261.5	291.7	359.5	457.6
82.5°	193.6	213.7	238.9	299.2	377.1
85°	153.4	173.5	193.6	241.4	294.2
87.5°	123.2	138.3	158.4	193.6	228.8
90°	98.1	115.7	133.3	158.4	181.0
92.5°	90.5	105.6	120.7	140.8	155.9
95°	85.5	98.1	113.1	128.2	138.3
97.5°	80.5	93.0	105.6	120.7	128.2
100°	77.9	88.0	100.6	113.1	118.2
102.5°	75.4	83.0	95.5	105.6	113.1
105°	72.9	80.5	90.5	100.6	105.6
107.5°	67.9	75.4	85.5	95.5	100.6
110°	65.4	70.4	80.5	88.0	95.5



TEST NUMBER: P384638

CATALOG NUMBER: 22ID-50-L830-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	62.9	67.9	75.4	83.0	88.0
115°	57.8	62.9	70.4	75.4	80.5
117.5°	55.3	57.8	65.4	67.9	72.9
120°	50.3	52.8	60.3	62.9	65.4
122.5°	45.3	47.8	55.3	55.3	60.3
125°	42.7	42.7	50.3	50.3	52.8
127.5°	40.2	40.2	45.3	45.3	47.8
130°	35.2	35.2	40.2	40.2	40.2
132.5°	32.7	30.2	35.2	35.2	37.7
135°	30.2	27.7	30.2	30.2	32.7
137.5°	25.1	25.1	27.7	25.1	27.7
140°	22.6	20.1	22.6	22.6	25.1
142.5°	20.1	17.6	20.1	17.6	20.1
145°	17.6	15.1	15.1	15.1	17.6
147.5°	15.1	12.6	12.6	12.6	15.1
150°	12.6	10.1	10.1	10.1	12.6
152.5°	10.1	7.5	5.0	7.5	10.1
155°	7.5	7.5	2.5	5.0	7.5
157.5°	5.0	5.0	0.0	2.5	5.0
160°	2.5	2.5	0.0	2.5	2.5
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)