

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: P384693

Luminaire Tested: **24ID-50-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384693
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-50-L850-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

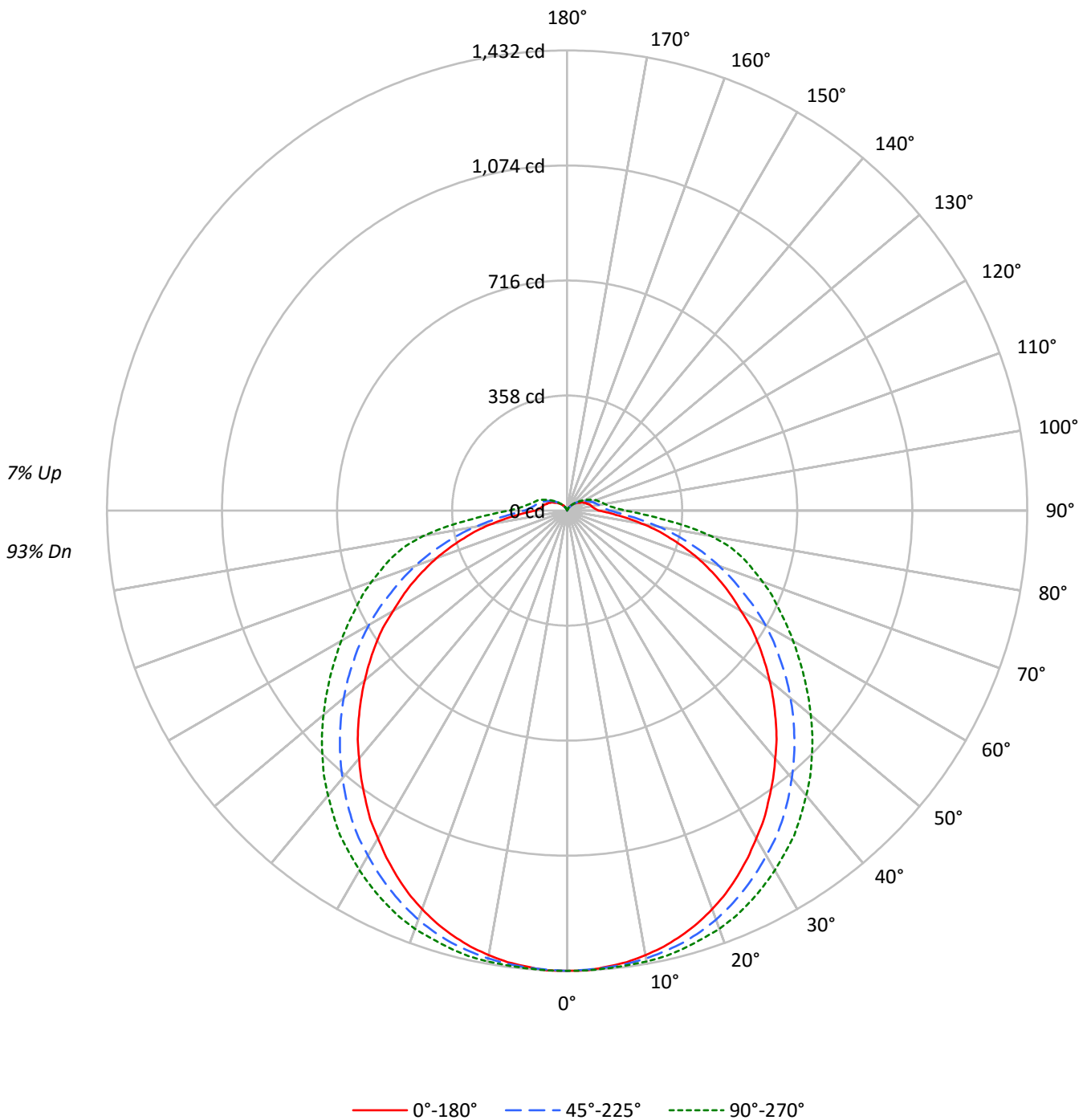
Lumens per Lamp: N/A
Luminaire Lumens: 5012.5 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 44
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	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°	1927	1927	1927
5°	1914	1906	1910
10°	1899	1889	1905
15°	1877	1873	1900
20°	1848	1851	1897
25°	1810	1821	1887
30°	1766	1789	1873
35°	1723	1758	1861
40°	1681	1719	1840
45°	1643	1680	1822
50°	1602	1640	1803
55°	1567	1597	1791
60°	1518	1559	1797
65°	1488	1500	1826
70°	1452	1449	1896
75°	1402	1374	2003
80°	1359	1283	2063
85°	1373	1181	1859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	2.7
10°-20°	392.5	7.8
20°-30°	599.6	12.0
30°-40°	729.9	14.6
40°-50°	771.5	15.4
50°-60°	728.2	14.5
60°-70°	612.7	12.2
70°-80°	441.8	8.8
80°-90°	233.0	4.6
90°-100°	124.7	2.5
100°-110°	94.7	1.9
110°-120°	68.7	1.4
120°-130°	43.1	0.9
130°-140°	23.3	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°	1127.9	22.5
0°-40°	1857.9	37.1
0°-60°	3357.6	67.0
0°-90°	4645.0	92.7
90°-120°	288.1	5.7
90°-150°	364.7	7.3
90°-180°	368.0	7.3
0°-180°	5012.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1425	1425	1427	1427	1430	135
15°	1370	1375	1392	1402	1410	386
25°	1255	1270	1302	1332	1345	578
35°	1095	1120	1170	1215	1232	686
45°	917	945	1000	1055	1077	708
55°	727	760	810	870	900	650
65°	530	560	605	680	727	524
75°	332	360	395	472	565	353
85°	152	172	192	240	292	143
90°	98	115	132	158	180	56
95°	85	98	112	128	138	68
105°	72	80	90	100	105	76
115°	58	62	70	75	80	58
125°	42	42	50	50	52	38
135°	30	28	30	30	32	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.4	1432.4	1432.4	1432.4	1432.4
2.5°	1432.4	1429.9	1429.9	1429.9	1432.4
5°	1424.9	1424.9	1427.4	1427.4	1429.9
7.5°	1417.4	1417.4	1422.4	1424.9	1427.4
10°	1404.9	1407.4	1414.9	1419.9	1424.9
12.5°	1389.9	1392.4	1404.9	1414.9	1419.9
15°	1369.9	1374.9	1392.4	1402.4	1409.9
17.5°	1347.4	1354.9	1374.9	1389.9	1397.4
20°	1319.9	1329.9	1354.9	1374.9	1384.9
22.5°	1289.9	1299.9	1329.9	1354.9	1367.4
25°	1254.9	1269.9	1302.4	1332.4	1344.9
27.5°	1217.4	1234.9	1272.4	1307.4	1319.9
30°	1177.4	1197.4	1239.9	1277.4	1292.4
32.5°	1139.9	1159.9	1207.4	1247.4	1262.4
35°	1094.9	1119.9	1169.9	1214.9	1232.4
37.5°	1052.4	1077.4	1129.9	1177.4	1194.9
40°	1007.4	1032.4	1087.4	1139.9	1157.4
42.5°	964.9	989.9	1044.9	1099.9	1119.9
45°	917.4	944.9	999.9	1054.9	1077.4
47.5°	869.9	897.4	954.9	1012.4	1034.9
50°	822.4	852.4	907.4	964.9	989.9
52.5°	774.9	804.9	859.9	919.9	944.9
55°	727.4	759.9	809.9	869.9	899.9
57.5°	680.0	712.4	762.4	824.9	854.9
60°	625.0	662.5	712.4	777.4	812.4
62.5°	577.5	610.0	660.0	727.4	769.9
65°	530.0	560.0	605.0	680.0	727.4
67.5°	480.0	512.5	555.0	625.0	689.9
70°	432.5	460.0	502.5	575.0	647.5
72.5°	382.5	410.0	450.0	525.0	605.0
75°	332.5	360.0	395.0	472.5	565.0
77.5°	287.5	310.0	342.5	417.5	517.5
80°	237.5	260.0	290.0	357.5	455.0
82.5°	192.5	212.5	237.5	297.5	375.0
85°	152.5	172.5	192.5	240.0	292.5
87.5°	122.5	137.5	157.5	192.5	227.5
90°	97.5	115.0	132.5	157.5	180.0
92.5°	90.0	105.0	120.0	140.0	155.0
95°	85.0	97.5	112.5	127.5	137.5
97.5°	80.0	92.5	105.0	120.0	127.5
100°	77.5	87.5	100.0	112.5	117.5
102.5°	75.0	82.5	95.0	105.0	112.5
105°	72.5	80.0	90.0	100.0	105.0
107.5°	67.5	75.0	85.0	95.0	100.0
110°	65.0	70.0	80.0	87.5	95.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	62.5	67.5	75.0	82.5	87.5
115°	57.5	62.5	70.0	75.0	80.0
117.5°	55.0	57.5	65.0	67.5	72.5
120°	50.0	52.5	60.0	62.5	65.0
122.5°	45.0	47.5	55.0	55.0	60.0
125°	42.5	42.5	50.0	50.0	52.5
127.5°	40.0	40.0	45.0	45.0	47.5
130°	35.0	35.0	40.0	40.0	40.0
132.5°	32.5	30.0	35.0	35.0	37.5
135°	30.0	27.5	30.0	30.0	32.5
137.5°	25.0	25.0	27.5	25.0	27.5
140°	22.5	20.0	22.5	22.5	25.0
142.5°	20.0	17.5	20.0	17.5	20.0
145°	17.5	15.0	15.0	15.0	17.5
147.5°	15.0	12.5	12.5	12.5	15.0
150°	12.5	10.0	10.0	10.0	12.5
152.5°	10.0	7.5	5.0	7.5	10.0
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)