

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: P384361

Luminaire Tested: **24ID-55-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-55-L850-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

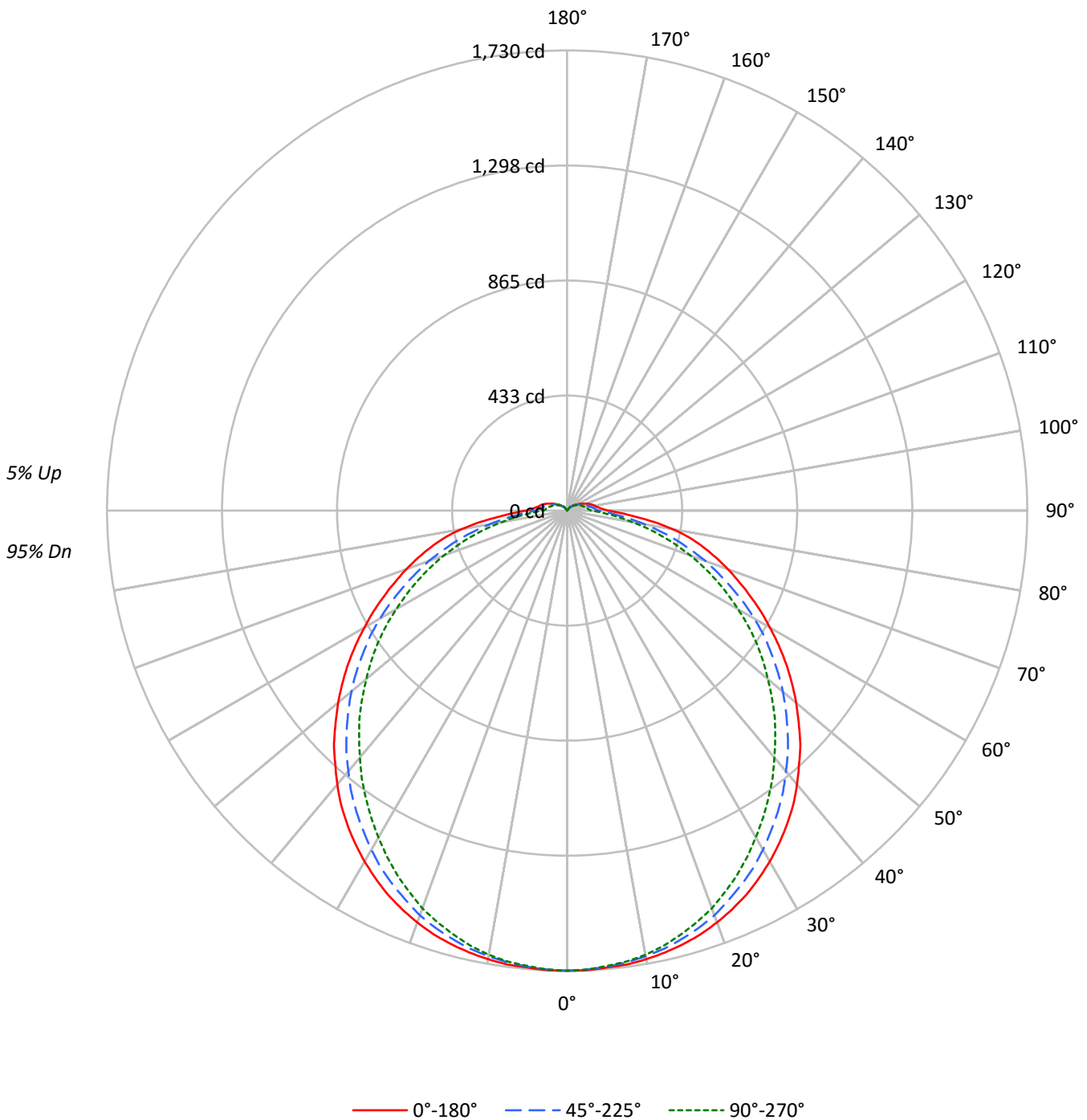
Lumens per Lamp: N/A
Luminaire Lumens: 5610.4 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 50.2
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



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2327	2327	2327
5°	2320	2307	2304
10°	2323	2289	2283
15°	2324	2269	2249
20°	2324	2246	2211
25°	2321	2212	2160
30°	2311	2176	2103
35°	2300	2137	2048
40°	2282	2092	1989
45°	2265	2049	1939
50°	2241	2005	1876
55°	2225	1952	1822
60°	2210	1896	1744
65°	2217	1819	1667
70°	2269	1748	1577
75°	2382	1649	1459
80°	2537	1519	1311
85°	2665	1435	1209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	2.9
10°-20°	470.8	8.4
20°-30°	715.0	12.7
30°-40°	863.7	15.4
40°-50°	904.0	16.1
50°-60°	838.8	15.0
60°-70°	679.4	12.1
70°-80°	458.5	8.2
80°-90°	221.5	3.9
90°-100°	111.4	2.0
100°-110°	81.0	1.4
110°-120°	54.1	1.0
120°-130°	31.4	0.6
130°-140°	15.8	0.3
140°-150°	1.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1349.5	24.1
0°-40°	2213.2	39.4
0°-60°	3956.0	70.5
0°-90°	5315.4	94.7
90°-120°	246.6	4.4
90°-150°	295.0	5.3
90°-180°	295.0	5.3
0°-180°	5610.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1730	1730	1730	1730	1730	
5°	1724	1721	1721	1718	1718	164
15°	1687	1679	1668	1656	1650	477
25°	1594	1580	1551	1523	1512	734
35°	1441	1421	1382	1339	1319	902
45°	1240	1217	1172	1124	1104	955
55°	1005	982	937	892	869	898
65°	759	730	680	643	617	753
75°	529	476	422	391	368	558
85°	255	221	187	170	153	241
90°	153	139	119	108	91	87
95°	122	113	102	91	79	96
105°	91	85	76	68	62	97
115°	62	57	57	48	48	62
125°	40	34	37	31	34	35
135°	23	20	20	20	23	18
145°	0	0	0	0	0	1
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°	1729.8	1729.8	1729.8	1729.8	1729.8
2.5°	1729.8	1727.0	1727.0	1727.0	1727.0
5°	1724.1	1721.3	1721.3	1718.5	1718.5
7.5°	1721.3	1715.6	1712.8	1710.0	1710.0
10°	1712.8	1707.1	1701.5	1695.8	1695.8
12.5°	1701.5	1695.8	1687.3	1676.0	1676.0
15°	1687.3	1678.8	1667.5	1656.2	1650.5
17.5°	1670.3	1661.8	1644.9	1627.9	1622.2
20°	1647.7	1636.4	1619.4	1596.7	1591.1
22.5°	1622.2	1610.9	1585.4	1562.8	1551.4
25°	1593.9	1579.7	1551.4	1523.1	1511.8
27.5°	1559.9	1545.8	1514.6	1480.7	1466.5
30°	1523.1	1506.1	1472.2	1435.4	1418.4
32.5°	1483.5	1463.7	1426.9	1387.2	1370.2
35°	1441.0	1421.2	1381.6	1339.1	1319.3
37.5°	1395.7	1375.9	1333.4	1288.1	1268.3
40°	1344.8	1324.9	1279.6	1234.4	1211.7
42.5°	1291.0	1274.0	1228.7	1180.6	1157.9
45°	1240.0	1217.4	1172.1	1123.9	1104.1
47.5°	1180.6	1163.6	1115.4	1067.3	1044.7
50°	1123.9	1104.1	1058.8	1010.7	985.2
52.5°	1064.5	1047.5	999.4	951.2	928.6
55°	1005.0	982.4	937.1	891.8	869.1
57.5°	942.8	922.9	877.6	835.2	806.9
60°	880.5	860.6	812.5	772.9	741.7
62.5°	821.0	798.4	747.4	704.9	679.5
65°	758.7	730.4	679.5	642.7	617.2
67.5°	699.3	665.3	614.3	580.4	554.9
70°	642.7	603.0	552.1	518.1	492.6
72.5°	586.0	537.9	484.1	453.0	430.3
75°	529.4	475.6	421.8	390.7	368.0
77.5°	472.8	410.5	356.7	331.2	308.6
80°	404.8	345.4	294.4	271.8	249.1
82.5°	328.4	280.3	237.8	215.2	198.2
85°	254.8	220.8	186.9	169.9	152.9
87.5°	198.2	172.7	147.2	133.1	118.9
90°	152.9	138.7	118.9	107.6	90.6
92.5°	133.1	121.7	107.6	96.3	82.1
95°	121.7	113.2	101.9	90.6	79.3
97.5°	110.4	104.8	93.4	84.9	73.6
100°	104.8	96.3	87.8	79.3	70.8
102.5°	99.1	90.6	82.1	73.6	67.9
105°	90.6	84.9	76.4	67.9	62.3
107.5°	84.9	76.4	70.8	62.3	59.5
110°	76.4	70.8	65.1	59.5	56.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	67.9	65.1	59.5	53.8	51.0
115°	62.3	56.6	56.6	48.1	48.1
117.5°	56.6	51.0	51.0	45.3	45.3
120°	48.1	45.3	45.3	39.6	39.6
122.5°	42.5	39.6	39.6	36.8	36.8
125°	39.6	34.0	36.8	31.1	34.0
127.5°	34.0	31.1	31.1	28.3	31.1
130°	28.3	25.5	25.5	25.5	28.3
132.5°	25.5	22.6	22.6	22.6	25.5
135°	22.6	19.8	19.8	19.8	22.6
137.5°	19.8	17.0	14.2	17.0	19.8
140°	17.0	14.2	11.3	14.2	17.0
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)