

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: P384359

Luminaire Tested: **24ID-55-L835-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384359
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-L835-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

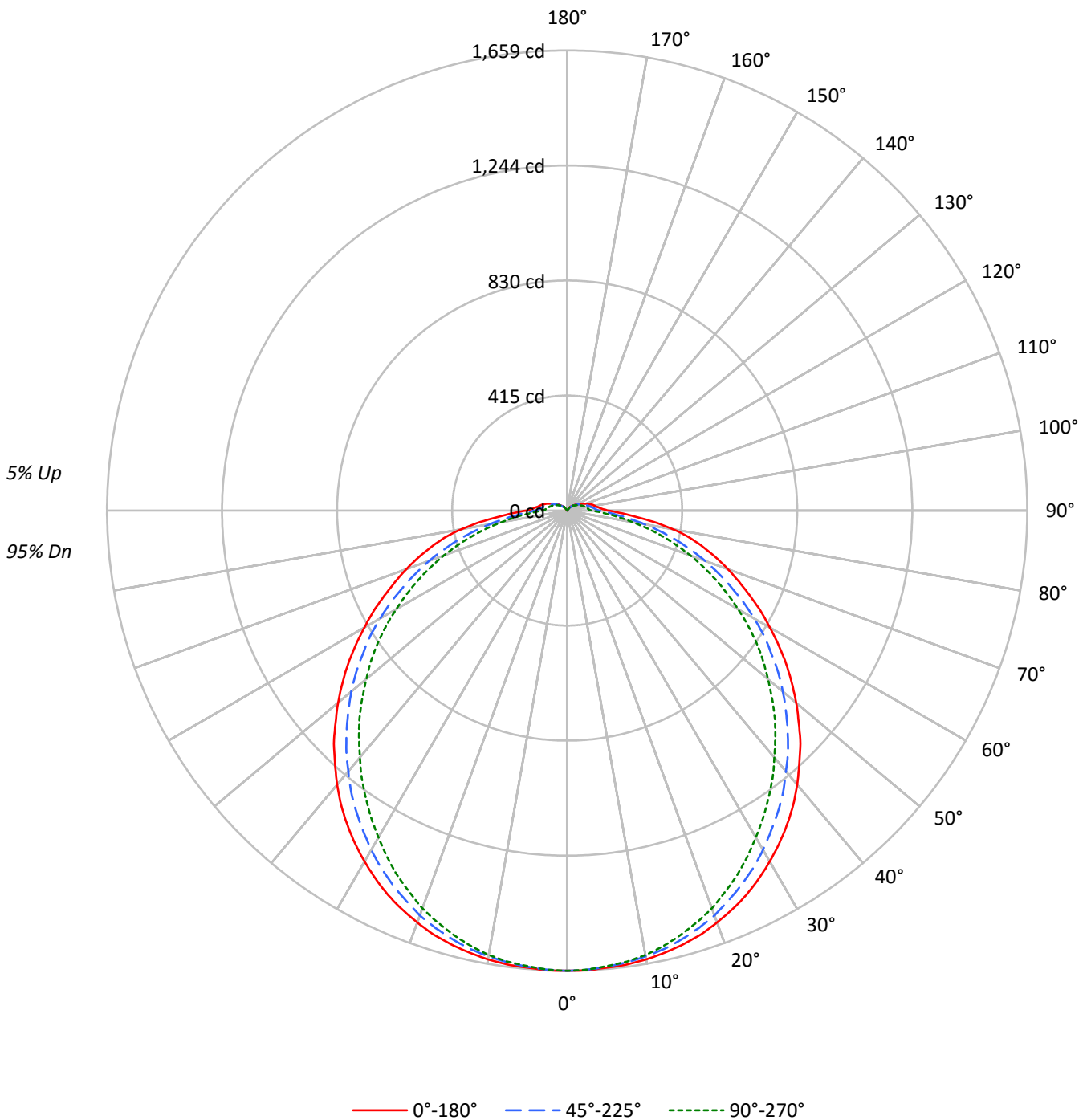
Lumens per Lamp: N/A
Luminaire Lumens: 5381.9 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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°	2233	2233	2233
5°	2226	2213	2210
10°	2228	2196	2190
15°	2230	2177	2157
20°	2229	2155	2121
25°	2227	2122	2072
30°	2217	2088	2017
35°	2206	2050	1964
40°	2189	2007	1908
45°	2173	1966	1860
50°	2150	1923	1800
55°	2135	1872	1748
60°	2120	1819	1673
65°	2127	1744	1599
70°	2176	1676	1512
75°	2285	1582	1400
80°	2434	1458	1258
85°	2556	1376	1160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	2.9
10°-20°	451.6	8.4
20°-30°	685.9	12.7
30°-40°	828.5	15.4
40°-50°	867.2	16.1
50°-60°	804.6	15.0
60°-70°	651.7	12.1
70°-80°	439.8	8.2
80°-90°	212.5	3.9
90°-100°	106.9	2.0
100°-110°	77.7	1.4
110°-120°	51.9	1.0
120°-130°	30.1	0.6
130°-140°	15.2	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°	1294.6	24.1
0°-40°	2123.1	39.4
0°-60°	3794.9	70.5
0°-90°	5098.9	94.7
90°-120°	236.5	4.4
90°-150°	283.0	5.3
90°-180°	283.0	5.3
0°-180°	5381.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1659	1659	1659	1659	1659	
5°	1654	1651	1651	1648	1648	158
15°	1619	1610	1600	1589	1583	457
25°	1529	1515	1488	1461	1450	705
35°	1382	1363	1325	1285	1266	865
45°	1190	1168	1124	1078	1059	916
55°	964	942	899	856	834	862
65°	728	701	652	616	592	722
75°	508	456	405	375	353	535
85°	244	212	179	163	147	231
90°	147	133	114	103	87	84
95°	117	109	98	87	76	92
105°	87	82	73	65	60	93
115°	60	54	54	46	46	59
125°	38	33	35	30	33	33
135°	22	19	19	19	22	17
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°	1659.3	1659.3	1659.3	1659.3	1659.3
2.5°	1659.3	1656.6	1656.6	1656.6	1656.6
5°	1653.9	1651.2	1651.2	1648.5	1648.5
7.5°	1651.2	1645.8	1643.0	1640.3	1640.3
10°	1643.0	1637.6	1632.2	1626.8	1626.8
12.5°	1632.2	1626.8	1618.6	1607.7	1607.7
15°	1618.6	1610.5	1599.6	1588.7	1583.3
17.5°	1602.3	1594.2	1577.9	1561.6	1556.1
20°	1580.6	1569.7	1553.4	1531.7	1526.3
22.5°	1556.1	1545.3	1520.8	1499.1	1488.2
25°	1529.0	1515.4	1488.2	1461.1	1450.2
27.5°	1496.4	1482.8	1452.9	1420.4	1406.8
30°	1461.1	1444.8	1412.2	1376.9	1360.6
32.5°	1423.1	1404.1	1368.8	1330.7	1314.4
35°	1382.3	1363.3	1325.3	1284.6	1265.6
37.5°	1338.9	1319.9	1279.1	1235.7	1216.7
40°	1290.0	1271.0	1227.5	1184.1	1162.4
42.5°	1238.4	1222.1	1178.6	1132.5	1110.8
45°	1189.5	1167.8	1124.3	1078.2	1059.2
47.5°	1132.5	1116.2	1070.0	1023.8	1002.1
50°	1078.2	1059.2	1015.7	969.5	945.1
52.5°	1021.1	1004.8	958.7	912.5	890.8
55°	964.1	942.4	898.9	855.5	833.7
57.5°	904.4	885.3	841.9	801.2	774.0
60°	844.6	825.6	779.4	741.4	711.5
62.5°	787.6	765.8	717.0	676.2	651.8
65°	727.8	700.7	651.8	616.5	592.0
67.5°	670.8	638.2	589.3	556.7	532.3
70°	616.5	578.5	529.6	497.0	472.5
72.5°	562.2	516.0	464.4	434.5	412.8
75°	507.9	456.3	404.7	374.8	353.1
77.5°	453.5	393.8	342.2	317.7	296.0
80°	388.4	331.3	282.4	260.7	239.0
82.5°	315.0	268.9	228.1	206.4	190.1
85°	244.4	211.8	179.2	162.9	146.7
87.5°	190.1	165.7	141.2	127.6	114.1
90°	146.7	133.1	114.1	103.2	86.9
92.5°	127.6	116.8	103.2	92.3	78.8
95°	116.8	108.6	97.8	86.9	76.0
97.5°	105.9	100.5	89.6	81.5	70.6
100°	100.5	92.3	84.2	76.0	67.9
102.5°	95.1	86.9	78.8	70.6	65.2
105°	86.9	81.5	73.3	65.2	59.7
107.5°	81.5	73.3	67.9	59.7	57.0
110°	73.3	67.9	62.5	57.0	54.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.2	62.5	57.0	51.6	48.9
115°	59.7	54.3	54.3	46.2	46.2
117.5°	54.3	48.9	48.9	43.5	43.5
120°	46.2	43.5	43.5	38.0	38.0
122.5°	40.7	38.0	38.0	35.3	35.3
125°	38.0	32.6	35.3	29.9	32.6
127.5°	32.6	29.9	29.9	27.2	29.9
130°	27.2	24.4	24.4	24.4	27.2
132.5°	24.4	21.7	21.7	21.7	24.4
135°	21.7	19.0	19.0	19.0	21.7
137.5°	19.0	16.3	13.6	16.3	19.0
140°	16.3	13.6	10.9	13.6	16.3
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)