

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: P384183

Luminaire Tested: **24ID-45-L835-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384183  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-45-L835-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

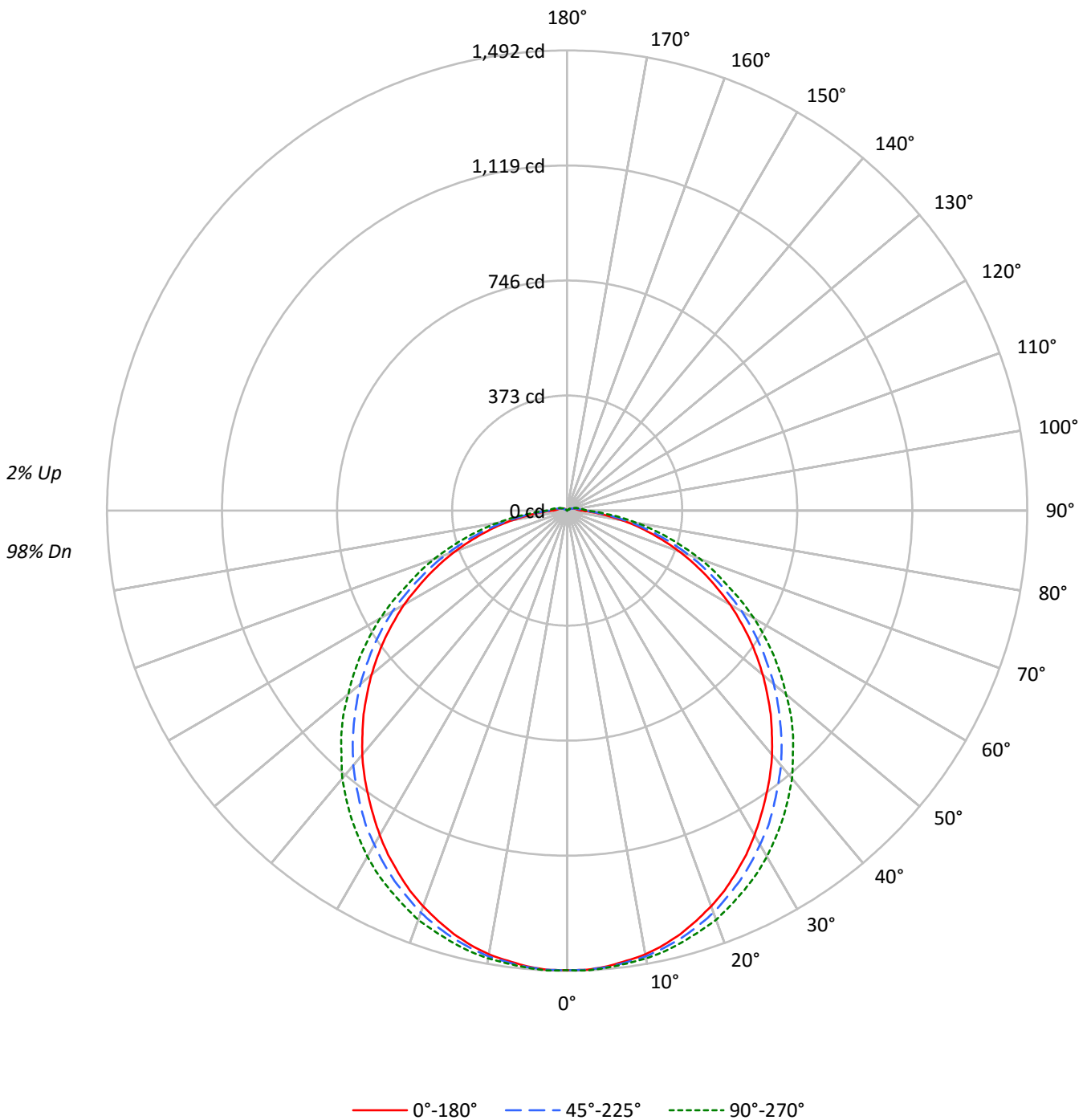
Lumens per Lamp: N/A  
Luminaire Lumens: 4413.7 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 40  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2005	2005	2005
5°	2000	1999	2002
10°	1989	1990	2000
15°	1968	1975	1994
20°	1940	1955	1992
25°	1905	1927	1978
30°	1865	1895	1966
35°	1822	1861	1946
40°	1785	1827	1925
45°	1739	1782	1892
50°	1691	1740	1847
55°	1641	1689	1808
60°	1587	1633	1758
65°	1514	1549	1674
70°	1432	1468	1619
75°	1339	1358	1530
80°	1240	1234	1430
85°	1200	1148	1358



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.1	3.2
10°-20°	404.6	9.2
20°-30°	610.8	13.8
30°-40°	731.9	16.6
40°-50°	756.7	17.1
50°-60°	685.2	15.5
60°-70°	530.2	12.0
70°-80°	325.7	7.4
80°-90°	129.4	2.9
90°-100°	47.2	1.1
100°-110°	29.0	0.7
110°-120°	14.9	0.3
120°-130°	6.4	0.1
130°-140°	0.4	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1156.6	26.2
0°-40°	1888.5	42.8
0°-60°	3330.4	75.5
0°-90°	4315.8	97.8
90°-120°	91.2	2.1
90°-150°	98.0	2.2
90°-180°	98.0	2.2
0°-180°	4413.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1484	1484	1486	1486	1488	141
15°	1421	1423	1434	1443	1448	401
25°	1296	1304	1325	1347	1358	597
35°	1126	1139	1168	1199	1220	705
45°	933	944	978	1018	1036	719
55°	720	736	765	799	817	644
65°	497	508	533	559	573	491
75°	278	291	304	324	340	296
85°	96	103	112	123	130	96
90°	45	52	56	63	67	26
95°	34	38	42	47	52	27
105°	25	25	27	29	31	26
115°	16	13	13	16	18	16
125°	9	7	4	7	9	8
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
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°	1490.3	1490.3	1490.3	1490.3	1490.3
2.5°	1490.3	1488.0	1490.3	1490.3	1492.5
5°	1483.6	1483.6	1485.8	1485.8	1488.0
7.5°	1472.4	1472.4	1476.8	1479.1	1481.3
10°	1461.2	1461.2	1467.9	1470.1	1474.6
12.5°	1443.3	1445.5	1452.2	1458.9	1463.4
15°	1420.9	1423.1	1434.3	1443.3	1447.8
17.5°	1394.0	1398.5	1412.0	1425.4	1429.9
20°	1365.0	1371.7	1387.3	1403.0	1412.0
22.5°	1333.6	1338.1	1356.0	1376.1	1385.1
25°	1295.6	1304.5	1324.7	1347.1	1358.2
27.5°	1257.6	1266.5	1288.9	1315.7	1329.2
30°	1215.0	1224.0	1250.8	1279.9	1295.6
32.5°	1170.3	1181.5	1212.8	1241.9	1257.6
35°	1125.5	1139.0	1168.0	1199.4	1219.5
37.5°	1080.8	1092.0	1123.3	1156.9	1177.0
40°	1033.8	1045.0	1078.5	1112.1	1134.5
42.5°	982.3	995.7	1029.3	1065.1	1083.0
45°	933.1	944.3	977.8	1018.1	1036.0
47.5°	879.4	895.1	926.4	964.4	984.6
50°	827.9	841.4	874.9	910.7	926.4
52.5°	774.2	787.6	819.0	854.8	872.7
55°	720.5	736.2	765.3	798.8	816.7
57.5°	664.6	680.2	709.3	738.4	758.6
60°	610.9	626.5	653.4	682.5	700.4
62.5°	550.5	563.9	593.0	624.3	637.7
65°	496.8	507.9	532.6	559.4	572.8
67.5°	440.8	454.2	476.6	501.2	516.9
70°	384.9	400.5	418.4	440.8	458.7
72.5°	331.2	344.6	360.3	382.6	398.3
75°	277.5	290.9	304.3	324.5	340.1
77.5°	230.5	237.2	250.6	268.5	284.2
80°	179.0	188.0	199.1	217.1	228.2
82.5°	134.3	143.2	152.2	165.6	176.8
85°	96.2	102.9	111.9	123.1	129.8
87.5°	64.9	71.6	78.3	87.3	94.0
90°	44.8	51.5	55.9	62.7	67.1
92.5°	38.0	42.5	47.0	51.5	55.9
95°	33.6	38.0	42.5	47.0	51.5
97.5°	31.3	33.6	38.0	42.5	44.8
100°	29.1	31.3	33.6	38.0	40.3
102.5°	26.9	26.9	31.3	33.6	35.8
105°	24.6	24.6	26.9	29.1	31.3
107.5°	22.4	22.4	24.6	24.6	29.1
110°	20.1	17.9	20.1	20.1	24.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	17.9	15.7	17.9	17.9	20.1
115°	15.7	13.4	13.4	15.7	17.9
117.5°	13.4	11.2	11.2	11.2	15.7
120°	13.4	11.2	9.0	9.0	13.4
122.5°	11.2	9.0	6.7	9.0	11.2
125°	9.0	6.7	4.5	6.7	9.0
127.5°	6.7	6.7	2.2	4.5	6.7
130°	6.7	4.5	2.2	4.5	4.5
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)