

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: P384352

Luminaire Tested: **24ID-45-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384352
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-45-L840-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

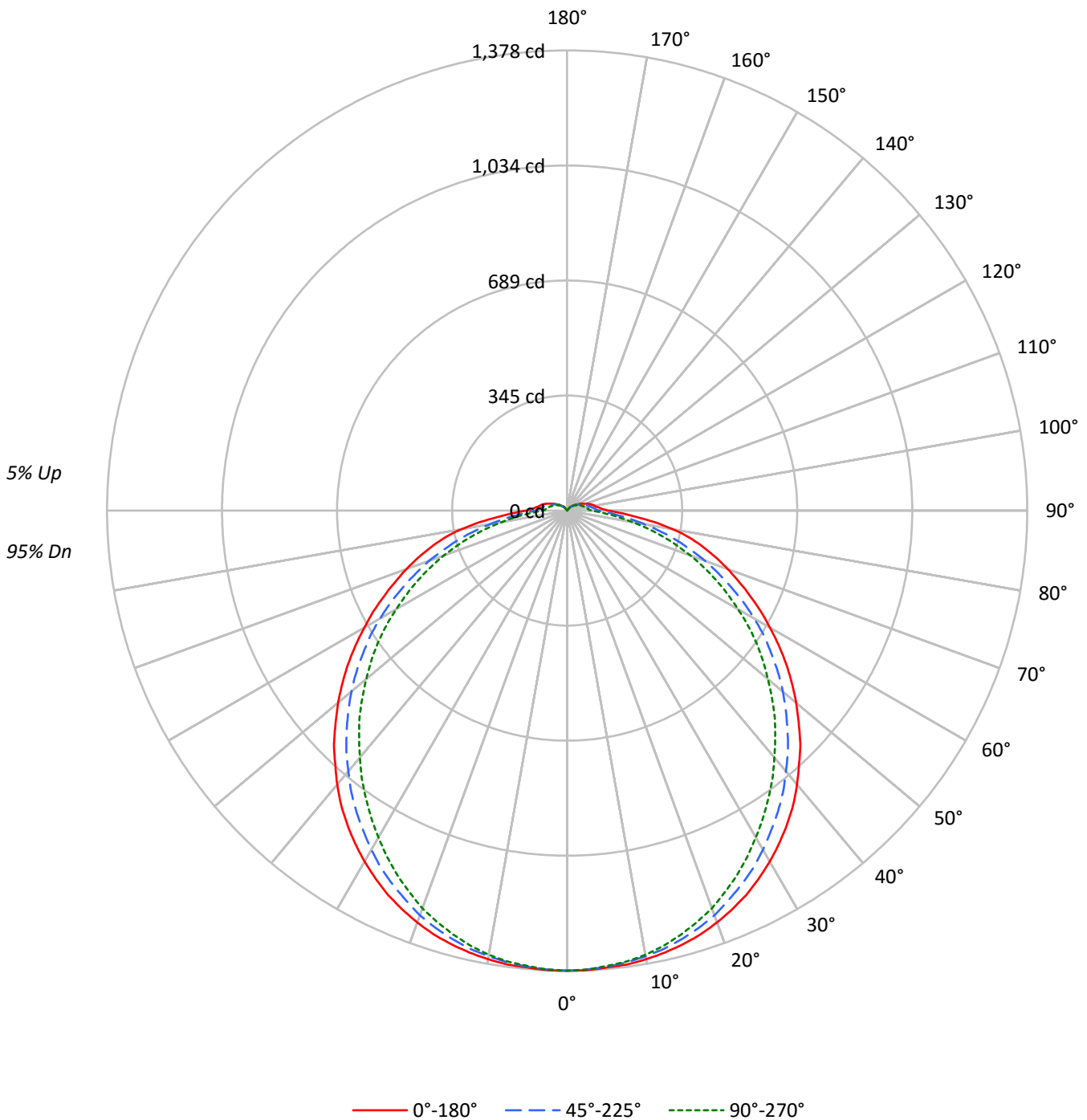
Lumens per Lamp: N/A
Luminaire Lumens: 4469.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 40
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°	1854	1854	1854
5°	1848	1838	1835
10°	1850	1823	1819
15°	1851	1807	1791
20°	1851	1789	1761
25°	1849	1762	1721
30°	1841	1733	1675
35°	1832	1702	1631
40°	1818	1667	1584
45°	1804	1632	1545
50°	1785	1597	1494
55°	1773	1555	1451
60°	1760	1510	1389
65°	1766	1448	1328
70°	1807	1392	1256
75°	1897	1313	1163
80°	2021	1210	1044
85°	2123	1143	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	2.9
10°-20°	375.0	8.4
20°-30°	569.6	12.7
30°-40°	688.0	15.4
40°-50°	720.1	16.1
50°-60°	668.2	15.0
60°-70°	541.2	12.1
70°-80°	365.2	8.2
80°-90°	176.5	3.9
90°-100°	88.8	2.0
100°-110°	64.5	1.4
110°-120°	43.1	1.0
120°-130°	25.0	0.6
130°-140°	12.6	0.3
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1075.0	24.1
0°-40°	1762.9	39.4
0°-60°	3151.2	70.5
0°-90°	4234.0	94.7
90°-120°	196.4	4.4
90°-150°	235.0	5.3
90°-180°	235.0	5.3
0°-180°	4469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1373	1371	1371	1369	1369	131
15°	1344	1337	1328	1319	1315	380
25°	1270	1258	1236	1213	1204	585
35°	1148	1132	1100	1067	1051	718
45°	988	970	934	895	880	761
55°	801	782	746	710	692	716
65°	604	582	541	512	492	600
75°	422	379	336	311	293	444
85°	203	176	149	135	122	192
90°	122	110	95	86	72	70
95°	97	90	81	72	63	76
105°	72	68	61	54	50	77
115°	50	45	45	38	38	49
125°	32	27	29	25	27	28
135°	18	16	16	16	18	14
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°	1377.9	1377.9	1377.9	1377.9	1377.9
2.5°	1377.9	1375.6	1375.6	1375.6	1375.6
5°	1373.4	1371.1	1371.1	1368.9	1368.9
7.5°	1371.1	1366.6	1364.3	1362.1	1362.1
10°	1364.3	1359.8	1355.3	1350.8	1350.8
12.5°	1355.3	1350.8	1344.0	1335.0	1335.0
15°	1344.0	1337.3	1328.3	1319.2	1314.7
17.5°	1330.5	1323.8	1310.2	1296.7	1292.2
20°	1312.5	1303.5	1289.9	1271.9	1267.4
22.5°	1292.2	1283.2	1262.9	1244.8	1235.8
25°	1269.6	1258.4	1235.8	1213.3	1204.2
27.5°	1242.6	1231.3	1206.5	1179.4	1168.2
30°	1213.3	1199.7	1172.7	1143.3	1129.8
32.5°	1181.7	1165.9	1136.6	1105.0	1091.5
35°	1147.9	1132.1	1100.5	1066.7	1050.9
37.5°	1111.8	1096.0	1062.2	1026.1	1010.3
40°	1071.2	1055.4	1019.3	983.2	965.2
42.5°	1028.3	1014.8	978.7	940.4	922.3
45°	987.7	969.7	933.6	895.3	879.5
47.5°	940.4	926.9	888.5	850.2	832.1
50°	895.3	879.5	843.4	805.1	784.8
52.5°	847.9	834.4	796.1	757.7	739.7
55°	800.6	782.5	746.4	710.4	692.3
57.5°	751.0	735.2	699.1	665.3	642.7
60°	701.3	685.6	647.2	615.6	590.8
62.5°	654.0	635.9	595.4	561.5	541.2
65°	604.4	581.8	541.2	511.9	491.6
67.5°	557.0	530.0	489.4	462.3	442.0
70°	511.9	480.3	439.7	412.7	392.4
72.5°	466.8	428.5	385.6	360.8	342.8
75°	421.7	378.9	336.0	311.2	293.2
77.5°	376.6	327.0	284.1	263.8	245.8
80°	322.5	275.1	234.5	216.5	198.5
82.5°	261.6	223.3	189.4	171.4	157.9
85°	203.0	175.9	148.8	135.3	121.8
87.5°	157.9	137.6	117.3	106.0	94.7
90°	121.8	110.5	94.7	85.7	72.2
92.5°	106.0	97.0	85.7	76.7	65.4
95°	97.0	90.2	81.2	72.2	63.1
97.5°	87.9	83.4	74.4	67.7	58.6
100°	83.4	76.7	69.9	63.1	56.4
102.5°	78.9	72.2	65.4	58.6	54.1
105°	72.2	67.7	60.9	54.1	49.6
107.5°	67.7	60.9	56.4	49.6	47.4
110°	60.9	56.4	51.9	47.4	45.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	54.1	51.9	47.4	42.8	40.6
115°	49.6	45.1	45.1	38.3	38.3
117.5°	45.1	40.6	40.6	36.1	36.1
120°	38.3	36.1	36.1	31.6	31.6
122.5°	33.8	31.6	31.6	29.3	29.3
125°	31.6	27.1	29.3	24.8	27.1
127.5°	27.1	24.8	24.8	22.6	24.8
130°	22.6	20.3	20.3	20.3	22.6
132.5°	20.3	18.0	18.0	18.0	20.3
135°	18.0	15.8	15.8	15.8	18.0
137.5°	15.8	13.5	11.3	13.5	15.8
140°	13.5	11.3	9.0	11.3	13.5
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)