

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: P384692

Luminaire Tested: **24ID-50-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384692
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-L840-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

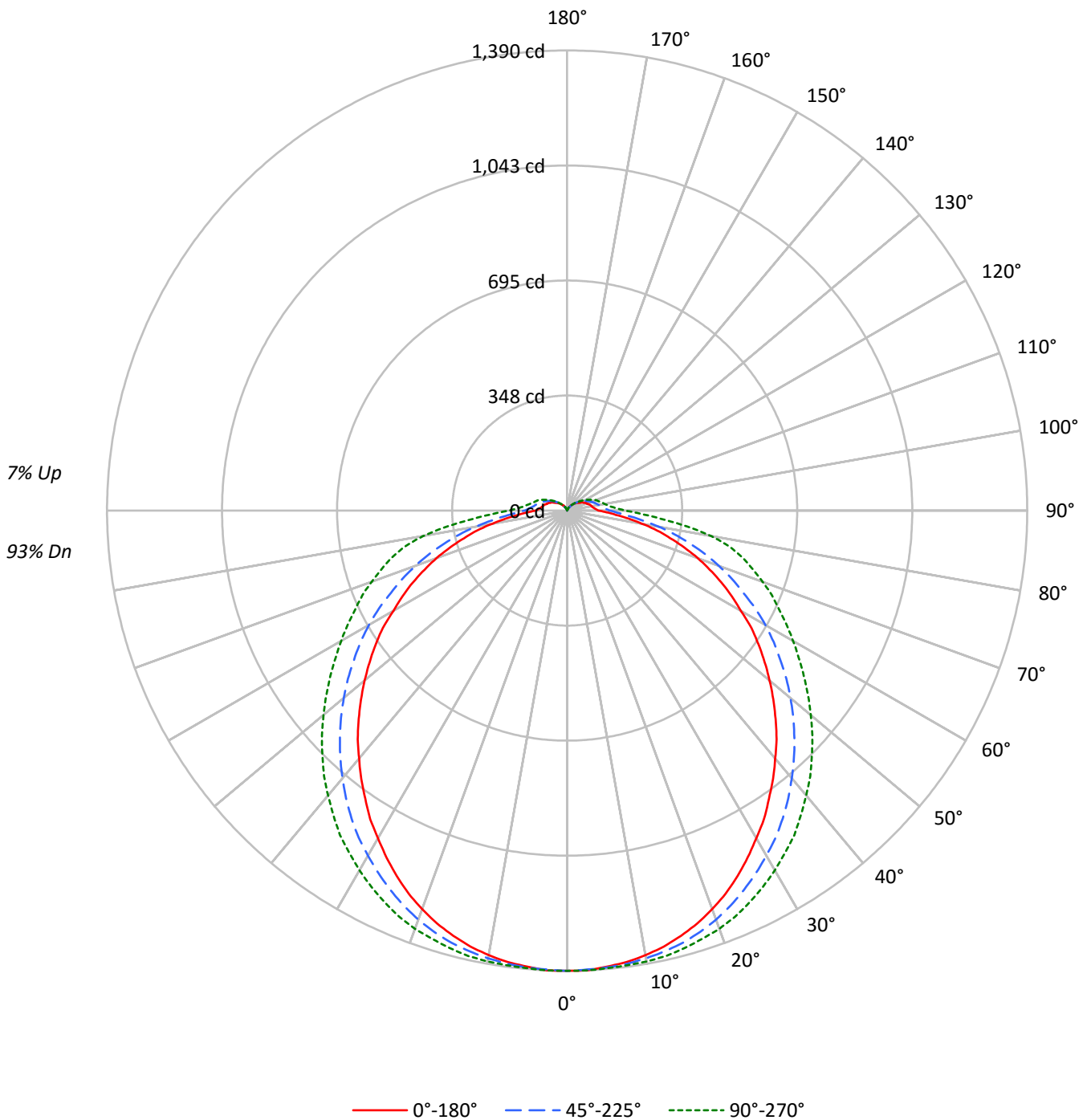
Lumens per Lamp: N/A
Luminaire Lumens: 4865.1 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

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



TEST NUMBER: P384692
CATALOG NUMBER: 24ID-50-L840-CFD3

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°	1871	1871	1871
5°	1858	1850	1854
10°	1843	1833	1849
15°	1822	1818	1844
20°	1794	1796	1841
25°	1757	1767	1831
30°	1714	1737	1818
35°	1672	1707	1807
40°	1632	1668	1786
45°	1595	1631	1769
50°	1555	1592	1750
55°	1521	1550	1739
60°	1473	1513	1744
65°	1444	1456	1773
70°	1409	1406	1840
75°	1360	1333	1944
80°	1319	1245	2002
85°	1333	1146	1805



TEST NUMBER: P384692

CATALOG NUMBER: 24ID-50-L840-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	2.7
10°-20°	380.9	7.8
20°-30°	582.0	12.0
30°-40°	708.5	14.6
40°-50°	748.8	15.4
50°-60°	706.8	14.5
60°-70°	594.7	12.2
70°-80°	428.7	8.8
80°-90°	226.1	4.6
90°-100°	121.0	2.5
100°-110°	91.9	1.9
110°-120°	66.7	1.4
120°-130°	41.9	0.9
130°-140°	22.6	0.5
140°-150°	9.9	0.2
150°-160°	2.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1094.8	22.5
0°-40°	1803.2	37.1
0°-60°	3258.9	67.0
0°-90°	4508.4	92.7
90°-120°	279.6	5.7
90°-150°	354.0	7.3
90°-180°	357.0	7.3
0°-180°	4865.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1383	1383	1385	1385	1388	131
15°	1330	1334	1352	1361	1368	375
25°	1218	1233	1264	1293	1305	561
35°	1063	1087	1136	1179	1196	666
45°	890	917	970	1024	1046	687
55°	706	738	786	844	874	631
65°	514	544	587	660	706	509
75°	323	349	383	459	548	343
85°	148	167	187	233	284	139
90°	95	112	129	153	175	54
95°	82	95	109	124	133	66
105°	70	78	87	97	102	74
115°	56	61	68	73	78	56
125°	41	41	48	48	51	37
135°	29	27	29	29	32	22
145°	17	15	15	15	17	11
155°	7	7	2	5	7	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384692

CATALOG NUMBER: 24ID-50-L840-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.3	1390.3	1390.3	1390.3	1390.3
2.5°	1390.3	1387.8	1387.8	1387.8	1390.3
5°	1383.0	1383.0	1385.4	1385.4	1387.8
7.5°	1375.7	1375.7	1380.6	1383.0	1385.4
10°	1363.6	1366.0	1373.3	1378.1	1383.0
12.5°	1349.0	1351.5	1363.6	1373.3	1378.1
15°	1329.6	1334.5	1351.5	1361.2	1368.4
17.5°	1307.8	1315.1	1334.5	1349.0	1356.3
20°	1281.1	1290.8	1315.1	1334.5	1344.2
22.5°	1252.0	1261.7	1290.8	1315.1	1327.2
25°	1218.0	1232.6	1264.1	1293.2	1305.4
27.5°	1181.6	1198.6	1235.0	1269.0	1281.1
30°	1142.8	1162.2	1203.4	1239.8	1254.4
32.5°	1106.4	1125.8	1171.9	1210.7	1225.3
35°	1062.7	1087.0	1135.5	1179.2	1196.2
37.5°	1021.5	1045.7	1096.7	1142.8	1159.8
40°	977.8	1002.1	1055.4	1106.4	1123.4
42.5°	936.6	960.8	1014.2	1067.6	1087.0
45°	890.5	917.1	970.5	1023.9	1045.7
47.5°	844.4	871.0	926.8	982.7	1004.5
50°	798.3	827.4	880.7	936.6	960.8
52.5°	752.2	781.3	834.6	892.9	917.1
55°	706.1	737.6	786.1	844.4	873.5
57.5°	660.0	691.5	740.0	800.7	829.8
60°	606.6	643.0	691.5	754.6	788.5
62.5°	560.5	592.0	640.5	706.1	747.3
65°	514.4	543.5	587.2	660.0	706.1
67.5°	465.9	497.4	538.6	606.6	669.7
70°	419.8	446.4	487.7	558.1	628.4
72.5°	371.2	397.9	436.7	509.5	587.2
75°	322.7	349.4	383.4	458.6	548.3
77.5°	279.0	300.9	332.4	405.2	502.2
80°	230.5	252.3	281.5	347.0	441.6
82.5°	186.8	206.2	230.5	288.7	363.9
85°	148.0	167.4	186.8	232.9	283.9
87.5°	118.9	133.4	152.9	186.8	220.8
90°	94.6	111.6	128.6	152.9	174.7
92.5°	87.3	101.9	116.5	135.9	150.4
95°	82.5	94.6	109.2	123.7	133.4
97.5°	77.6	89.8	101.9	116.5	123.7
100°	75.2	84.9	97.1	109.2	114.0
102.5°	72.8	80.1	92.2	101.9	109.2
105°	70.4	77.6	87.3	97.1	101.9
107.5°	65.5	72.8	82.5	92.2	97.1
110°	63.1	67.9	77.6	84.9	92.2



TEST NUMBER: P384692

CATALOG NUMBER: 24ID-50-L840-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	60.7	65.5	72.8	80.1	84.9
115°	55.8	60.7	67.9	72.8	77.6
117.5°	53.4	55.8	63.1	65.5	70.4
120°	48.5	51.0	58.2	60.7	63.1
122.5°	43.7	46.1	53.4	53.4	58.2
125°	41.2	41.2	48.5	48.5	51.0
127.5°	38.8	38.8	43.7	43.7	46.1
130°	34.0	34.0	38.8	38.8	38.8
132.5°	31.5	29.1	34.0	34.0	36.4
135°	29.1	26.7	29.1	29.1	31.5
137.5°	24.3	24.3	26.7	24.3	26.7
140°	21.8	19.4	21.8	21.8	24.3
142.5°	19.4	17.0	19.4	17.0	19.4
145°	17.0	14.6	14.6	14.6	17.0
147.5°	14.6	12.1	12.1	12.1	14.6
150°	12.1	9.7	9.7	9.7	12.1
152.5°	9.7	7.3	4.9	7.3	9.7
155°	7.3	7.3	2.4	4.9	7.3
157.5°	4.9	4.9	0.0	2.4	4.9
160°	2.4	2.4	0.0	2.4	2.4
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)