

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: P384188

Luminaire Tested: **24ID-50-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384188
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-50-L840-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

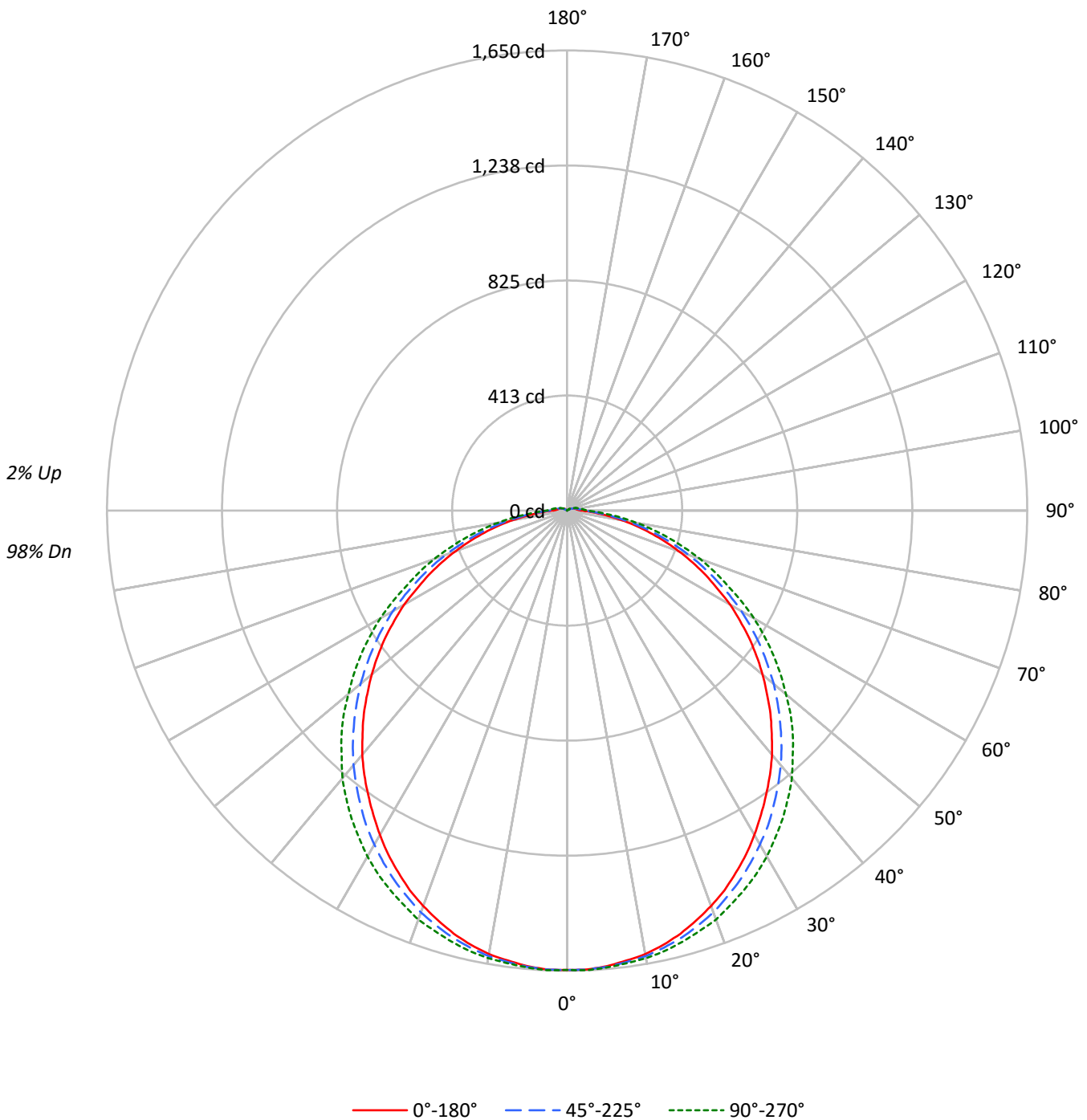
Lumens per Lamp: N/A
Luminaire Lumens: 4878.2 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 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: P384188
CATALOG NUMBER: 24ID-50-L840-CFD1

Luminous Intensity Polar Plot





TEST NUMBER: P384188

CATALOG NUMBER: 24ID-50-L840-CFD1

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°	2216	2216	2216
5°	2211	2209	2213
10°	2198	2199	2210
15°	2175	2182	2204
20°	2144	2161	2201
25°	2105	2130	2186
30°	2062	2094	2172
35°	2014	2057	2151
40°	1972	2019	2128
45°	1922	1970	2092
50°	1869	1923	2042
55°	1814	1866	1999
60°	1754	1805	1943
65°	1673	1712	1850
70°	1583	1623	1790
75°	1479	1501	1691
80°	1371	1364	1581
85°	1326	1269	1500



TEST NUMBER: P384188

CATALOG NUMBER: 24ID-50-L840-CFD1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	3.2
10°-20°	447.2	9.2
20°-30°	675.1	13.8
30°-40°	808.9	16.6
40°-50°	836.3	17.1
50°-60°	757.3	15.5
60°-70°	586.0	12.0
70°-80°	360.0	7.4
80°-90°	143.1	2.9
90°-100°	52.2	1.1
100°-110°	32.1	0.7
110°-120°	16.5	0.3
120°-130°	7.0	0.1
130°-140°	0.5	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°	1278.3	26.2
0°-40°	2087.2	42.8
0°-60°	3680.9	75.5
0°-90°	4770.0	97.8
90°-120°	100.7	2.1
90°-150°	108.2	2.2
90°-180°	108.0	2.2
0°-180°	4878.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1647	1647	1647	1647	1647	
5°	1640	1640	1642	1642	1645	156
15°	1570	1573	1585	1595	1600	443
25°	1432	1442	1464	1489	1501	660
35°	1244	1259	1291	1326	1348	779
45°	1031	1044	1081	1125	1145	795
55°	796	814	846	883	903	712
65°	549	561	589	618	633	543
75°	307	322	336	359	376	327
85°	106	114	124	136	143	106
90°	50	57	62	69	74	29
95°	37	42	47	52	57	30
105°	27	27	30	32	35	29
115°	17	15	15	17	20	18
125°	10	7	5	7	10	9
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



TEST NUMBER: P384188

CATALOG NUMBER: 24ID-50-L840-CFD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1647.1	1647.1	1647.1	1647.1	1647.1
2.5°	1647.1	1644.6	1647.1	1647.1	1649.6
5°	1639.7	1639.7	1642.2	1642.2	1644.6
7.5°	1627.3	1627.3	1632.3	1634.7	1637.2
10°	1615.0	1615.0	1622.4	1624.8	1629.8
12.5°	1595.2	1597.6	1605.1	1612.5	1617.4
15°	1570.4	1572.9	1585.3	1595.2	1600.1
17.5°	1540.8	1545.7	1560.5	1575.4	1580.3
20°	1508.6	1516.0	1533.3	1550.7	1560.5
22.5°	1474.0	1478.9	1498.7	1521.0	1530.9
25°	1431.9	1441.8	1464.1	1488.8	1501.2
27.5°	1389.9	1399.8	1424.5	1454.2	1469.0
30°	1342.9	1352.8	1382.5	1414.6	1431.9
32.5°	1293.4	1305.8	1340.4	1372.6	1389.9
35°	1244.0	1258.8	1291.0	1325.6	1347.9
37.5°	1194.5	1206.9	1241.5	1278.6	1300.9
40°	1142.6	1155.0	1192.0	1229.1	1253.9
42.5°	1085.7	1100.5	1137.6	1177.2	1197.0
45°	1031.3	1043.7	1080.8	1125.3	1145.1
47.5°	971.9	989.3	1023.9	1065.9	1088.2
50°	915.1	929.9	967.0	1006.6	1023.9
52.5°	855.7	870.5	905.2	944.7	964.5
55°	796.3	813.7	845.8	882.9	902.7
57.5°	734.5	751.8	784.0	816.1	838.4
60°	675.2	692.5	722.2	754.3	774.1
62.5°	608.4	623.2	655.4	690.0	704.8
65°	549.0	561.4	588.6	618.3	633.1
67.5°	487.2	502.0	526.8	554.0	571.3
70°	425.4	442.7	462.5	487.2	507.0
72.5°	366.0	380.9	398.2	422.9	440.2
75°	306.7	321.5	336.3	358.6	375.9
77.5°	254.7	262.2	277.0	296.8	314.1
80°	197.9	207.7	220.1	239.9	252.3
82.5°	148.4	158.3	168.2	183.0	195.4
85°	106.3	113.8	123.7	136.0	143.4
87.5°	71.7	79.1	86.6	96.5	103.9
90°	49.5	56.9	61.8	69.2	74.2
92.5°	42.0	47.0	51.9	56.9	61.8
95°	37.1	42.0	47.0	51.9	56.9
97.5°	34.6	37.1	42.0	47.0	49.5
100°	32.2	34.6	37.1	42.0	44.5
102.5°	29.7	29.7	34.6	37.1	39.6
105°	27.2	27.2	29.7	32.2	34.6
107.5°	24.7	24.7	27.2	27.2	32.2
110°	22.3	19.8	22.3	22.3	27.2



TEST NUMBER: P384188

CATALOG NUMBER: 24ID-50-L840-CFD1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.8	17.3	19.8	19.8	22.3
115°	17.3	14.8	14.8	17.3	19.8
117.5°	14.8	12.4	12.4	12.4	17.3
120°	14.8	12.4	9.9	9.9	14.8
122.5°	12.4	9.9	7.4	9.9	12.4
125°	9.9	7.4	4.9	7.4	9.9
127.5°	7.4	7.4	2.5	4.9	7.4
130°	7.4	4.9	2.5	4.9	4.9
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)