

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: P384184

Luminaire Tested: **24ID-45-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384184
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-L840-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

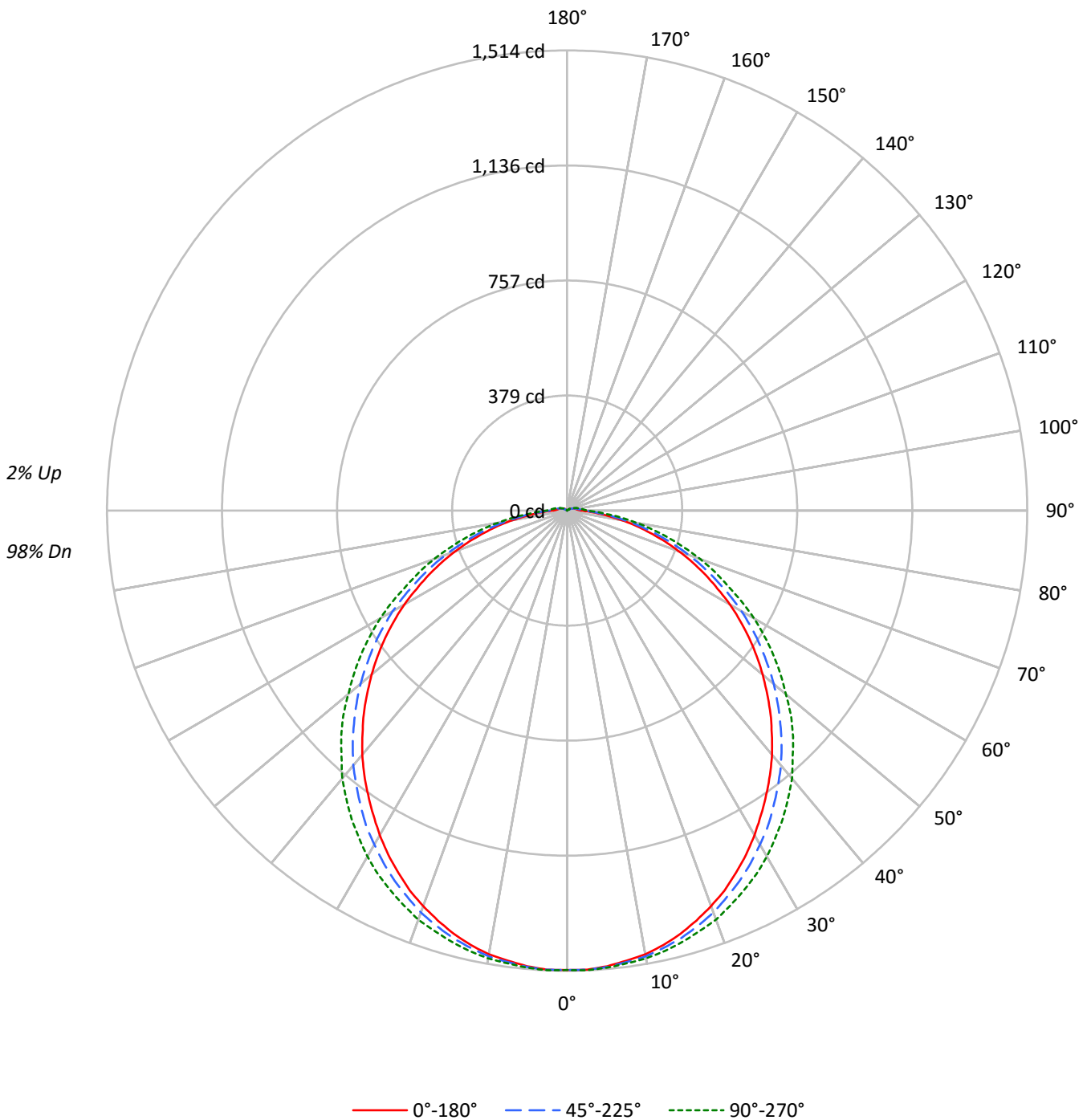
Lumens per Lamp: N/A
Luminaire Lumens: 4477.4 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 40
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: P384184
CATALOG NUMBER: 24ID-45-L840-CFD1

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°	2034	2034	2034
5°	2029	2028	2031
10°	2018	2019	2029
15°	1997	2003	2023
20°	1968	1983	2020
25°	1932	1955	2007
30°	1892	1922	1994
35°	1848	1888	1974
40°	1810	1853	1953
45°	1764	1808	1920
50°	1716	1765	1874
55°	1665	1713	1834
60°	1610	1657	1783
65°	1536	1571	1698
70°	1453	1489	1643
75°	1358	1378	1552
80°	1258	1252	1451
85°	1217	1164	1377



TEST NUMBER: P384184

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	3.2
10°-20°	410.4	9.2
20°-30°	619.7	13.8
30°-40°	742.5	16.6
40°-50°	767.6	17.1
50°-60°	695.1	15.5
60°-70°	537.9	12.0
70°-80°	330.4	7.4
80°-90°	131.3	2.9
90°-100°	47.9	1.1
100°-110°	29.4	0.7
110°-120°	15.1	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°	1173.3	26.2
0°-40°	1915.7	42.8
0°-60°	3378.5	75.5
0°-90°	4378.1	97.8
90°-120°	92.4	2.1
90°-150°	99.3	2.2
90°-180°	99.0	2.2
0°-180°	4477.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1505	1505	1507	1507	1510	143
15°	1441	1444	1455	1464	1469	406
25°	1314	1323	1344	1366	1378	606
35°	1142	1155	1185	1217	1237	715
45°	947	958	992	1033	1051	730
55°	731	747	776	810	828	653
65°	504	515	540	568	581	498
75°	282	295	309	329	345	300
85°	98	104	114	125	132	97
90°	45	52	57	64	68	27
95°	34	39	43	48	52	27
105°	25	25	27	30	32	26
115°	16	14	14	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



TEST NUMBER: P384184

CATALOG NUMBER: 24ID-45-L840-CFD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1511.8	1511.8	1511.8	1511.8	1511.8
2.5°	1511.8	1509.5	1511.8	1511.8	1514.0
5°	1505.0	1505.0	1507.2	1507.2	1509.5
7.5°	1493.6	1493.6	1498.2	1500.4	1502.7
10°	1482.3	1482.3	1489.1	1491.3	1495.9
12.5°	1464.1	1466.4	1473.2	1480.0	1484.5
15°	1441.4	1443.7	1455.0	1464.1	1468.6
17.5°	1414.2	1418.7	1432.3	1445.9	1450.5
20°	1384.7	1391.5	1407.4	1423.2	1432.3
22.5°	1352.9	1357.4	1375.6	1396.0	1405.1
25°	1314.3	1323.4	1343.8	1366.5	1377.9
27.5°	1275.7	1284.8	1307.5	1334.7	1348.3
30°	1232.6	1241.7	1268.9	1298.4	1314.3
32.5°	1187.2	1198.5	1230.3	1259.8	1275.7
35°	1141.8	1155.4	1184.9	1216.7	1237.1
37.5°	1096.4	1107.7	1139.5	1173.6	1194.0
40°	1048.7	1060.1	1094.1	1128.2	1150.9
42.5°	996.5	1010.1	1044.2	1080.5	1098.6
45°	946.6	957.9	992.0	1032.8	1051.0
47.5°	892.1	908.0	939.8	978.3	998.8
50°	839.9	853.5	887.5	923.9	939.8
52.5°	785.4	799.0	830.8	867.1	885.3
55°	730.9	746.8	776.3	810.4	828.5
57.5°	674.2	690.1	719.6	749.1	769.5
60°	619.7	635.6	662.8	692.3	710.5
62.5°	558.4	572.0	601.5	633.3	646.9
65°	503.9	515.3	540.2	567.5	581.1
67.5°	447.2	460.8	483.5	508.5	524.4
70°	390.4	406.3	424.5	447.2	465.3
72.5°	336.0	349.6	365.5	388.2	404.0
75°	281.5	295.1	308.7	329.1	345.0
77.5°	233.8	240.6	254.2	272.4	288.3
80°	181.6	190.7	202.0	220.2	231.5
82.5°	136.2	145.3	154.4	168.0	179.3
85°	97.6	104.4	113.5	124.8	131.7
87.5°	65.8	72.6	79.4	88.5	95.3
90°	45.4	52.2	56.7	63.6	68.1
92.5°	38.6	43.1	47.7	52.2	56.7
95°	34.0	38.6	43.1	47.7	52.2
97.5°	31.8	34.0	38.6	43.1	45.4
100°	29.5	31.8	34.0	38.6	40.9
102.5°	27.2	27.2	31.8	34.0	36.3
105°	25.0	25.0	27.2	29.5	31.8
107.5°	22.7	22.7	25.0	25.0	29.5
110°	20.4	18.2	20.4	20.4	25.0



TEST NUMBER: P384184

CATALOG NUMBER: 24ID-45-L840-CFD1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.2	15.9	18.2	18.2	20.4
115°	15.9	13.6	13.6	15.9	18.2
117.5°	13.6	11.3	11.3	11.3	15.9
120°	13.6	11.3	9.1	9.1	13.6
122.5°	11.3	9.1	6.8	9.1	11.3
125°	9.1	6.8	4.5	6.8	9.1
127.5°	6.8	6.8	2.3	4.5	6.8
130°	6.8	4.5	2.3	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)