

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: P384244

Luminaire Tested: **14ID-45-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384244
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: 14ID-45-L840-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

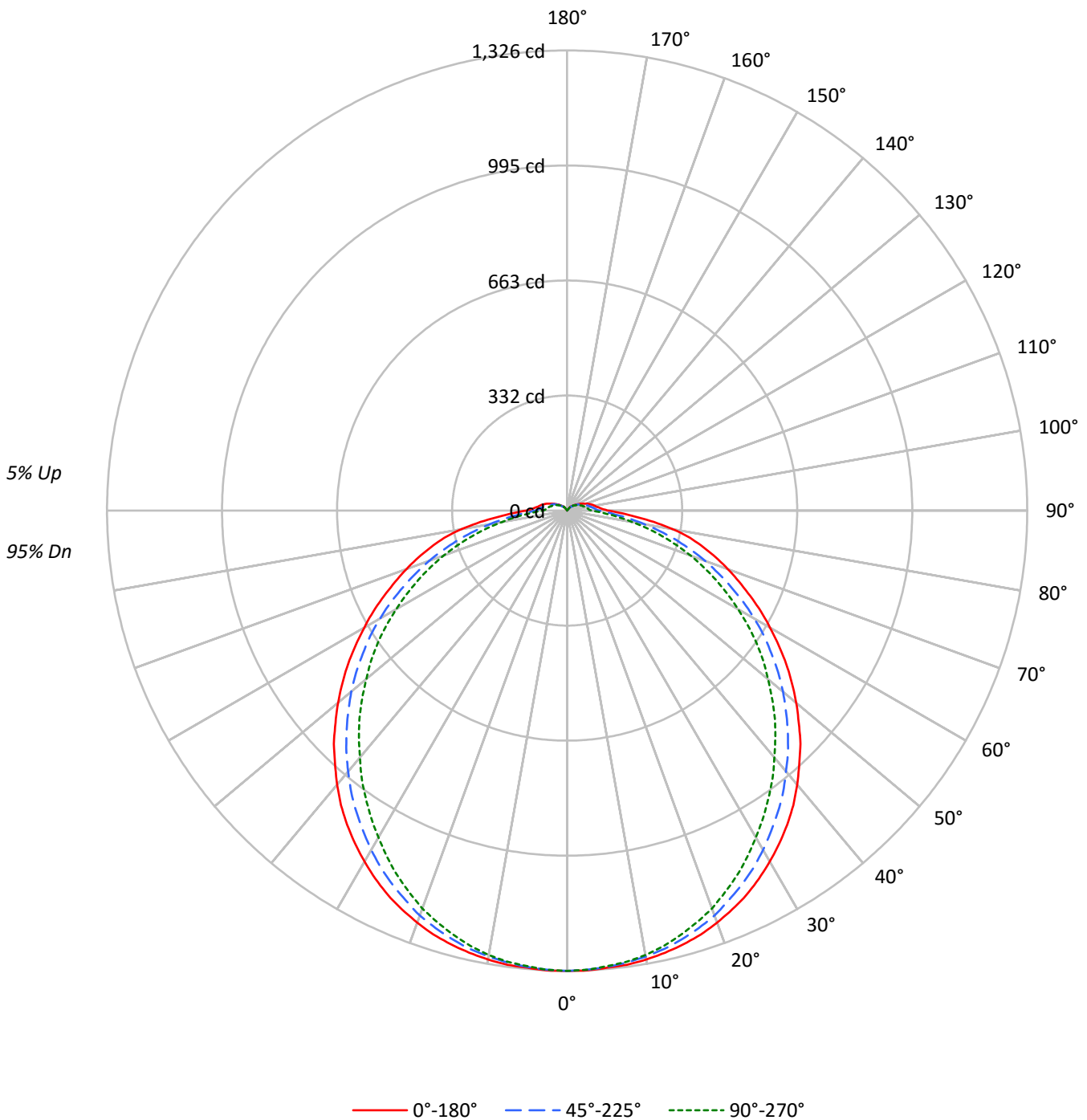
Lumens per Lamp: N/A
Luminaire Lumens: 4302.5 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 38.5
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



TEST NUMBER: P384244
CATALOG NUMBER: 14ID-45-L840-CFD2

Luminous Intensity Polar Plot





TEST NUMBER: P384244

CATALOG NUMBER: 14ID-45-L840-CFD2

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°	3570	3570	3570
5°	3559	3520	3509
10°	3563	3475	3452
15°	3565	3427	3376
20°	3564	3375	3294
25°	3560	3306	3194
30°	3544	3233	3083
35°	3527	3155	2976
40°	3500	3068	2864
45°	3474	2981	2762
50°	3438	2892	2639
55°	3413	2785	2526
60°	3389	2672	2375
65°	3401	2521	2220
70°	3479	2371	2039
75°	3653	2170	1809
80°	3892	1906	1522
85°	4087	1649	1246



TEST NUMBER: P384244

CATALOG NUMBER: 14ID-45-L840-CFD2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	2.9
10°-20°	361.0	8.4
20°-30°	548.3	12.7
30°-40°	662.3	15.4
40°-50°	693.2	16.1
50°-60°	643.3	15.0
60°-70°	521.0	12.1
70°-80°	351.6	8.2
80°-90°	169.9	3.9
90°-100°	85.5	2.0
100°-110°	62.1	1.4
110°-120°	41.5	1.0
120°-130°	24.1	0.6
130°-140°	12.1	0.3
140°-150°	0.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1034.9	24.1
0°-40°	1697.3	39.4
0°-60°	3033.8	70.5
0°-90°	4076.3	94.7
90°-120°	189.1	4.4
90°-150°	226.2	5.3
90°-180°	226.0	5.3
0°-180°	4302.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1322	1320	1320	1318	1318	126
15°	1294	1288	1279	1270	1266	366
25°	1222	1212	1190	1168	1159	563
35°	1105	1090	1060	1027	1012	691
45°	951	934	899	862	847	733
55°	771	753	719	684	666	689
65°	582	560	521	493	473	577
75°	406	365	324	300	282	428
85°	195	169	143	130	117	185
90°	117	106	91	82	70	67
95°	93	87	78	70	61	73
105°	70	65	59	52	48	74
115°	48	43	43	37	37	48
125°	30	26	28	24	26	27
135°	17	15	15	15	17	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



TEST NUMBER: P384244

CATALOG NUMBER: 14ID-45-L840-CFD2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.5	1326.5	1326.5	1326.5	1326.5
2.5°	1326.5	1324.4	1324.4	1324.4	1324.4
5°	1322.2	1320.0	1320.0	1317.9	1317.9
7.5°	1320.0	1315.7	1313.5	1311.3	1311.3
10°	1313.5	1309.2	1304.8	1300.5	1300.5
12.5°	1304.8	1300.5	1294.0	1285.3	1285.3
15°	1294.0	1287.5	1278.8	1270.1	1265.8
17.5°	1280.9	1274.4	1261.4	1248.4	1244.0
20°	1263.6	1254.9	1241.9	1224.5	1220.2
22.5°	1244.0	1235.4	1215.8	1198.4	1189.8
25°	1222.3	1211.5	1189.8	1168.1	1159.4
27.5°	1196.3	1185.4	1161.5	1135.5	1124.6
30°	1168.1	1155.0	1129.0	1100.7	1087.7
32.5°	1137.7	1122.5	1094.2	1063.8	1050.8
35°	1105.1	1089.9	1059.5	1026.9	1011.7
37.5°	1070.4	1055.2	1022.6	987.9	972.7
40°	1031.3	1016.1	981.3	946.6	929.2
42.5°	990.0	977.0	942.3	905.3	888.0
45°	950.9	933.6	898.8	861.9	846.7
47.5°	905.3	892.3	855.4	818.5	801.1
50°	861.9	846.7	812.0	775.1	755.5
52.5°	816.3	803.3	766.4	729.5	712.1
55°	770.7	753.4	718.6	683.9	666.5
57.5°	723.0	707.8	673.0	640.5	618.8
60°	675.2	660.0	623.1	592.7	568.8
62.5°	629.6	612.2	573.2	540.6	521.1
65°	581.9	560.1	521.1	492.8	473.3
67.5°	536.3	510.2	471.1	445.1	425.5
70°	492.8	462.4	423.4	397.3	377.8
72.5°	449.4	412.5	371.3	347.4	330.0
75°	406.0	364.7	323.5	299.6	282.2
77.5°	362.6	314.8	273.6	254.0	236.6
80°	310.5	264.9	225.8	208.4	191.1
82.5°	251.8	214.9	182.4	165.0	152.0
85°	195.4	169.3	143.3	130.3	117.2
87.5°	152.0	132.4	112.9	102.0	91.2
90°	117.2	106.4	91.2	82.5	69.5
92.5°	102.0	93.4	82.5	73.8	63.0
95°	93.4	86.8	78.2	69.5	60.8
97.5°	84.7	80.3	71.6	65.1	56.4
100°	80.3	73.8	67.3	60.8	54.3
102.5°	76.0	69.5	63.0	56.4	52.1
105°	69.5	65.1	58.6	52.1	47.8
107.5°	65.1	58.6	54.3	47.8	45.6
110°	58.6	54.3	49.9	45.6	43.4



TEST NUMBER: P384244

CATALOG NUMBER: 14ID-45-L840-CFD2

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	52.1	49.9	45.6	41.3	39.1
115°	47.8	43.4	43.4	36.9	36.9
117.5°	43.4	39.1	39.1	34.7	34.7
120°	36.9	34.7	34.7	30.4	30.4
122.5°	32.6	30.4	30.4	28.2	28.2
125°	30.4	26.1	28.2	23.9	26.1
127.5°	26.1	23.9	23.9	21.7	23.9
130°	21.7	19.5	19.5	19.5	21.7
132.5°	19.5	17.4	17.4	17.4	19.5
135°	17.4	15.2	15.2	15.2	17.4
137.5°	15.2	13.0	10.9	13.0	15.2
140°	13.0	10.9	8.7	10.9	13.0
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)