

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: P384345

Luminaire Tested: **24ID-35-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384345
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-35-L850-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

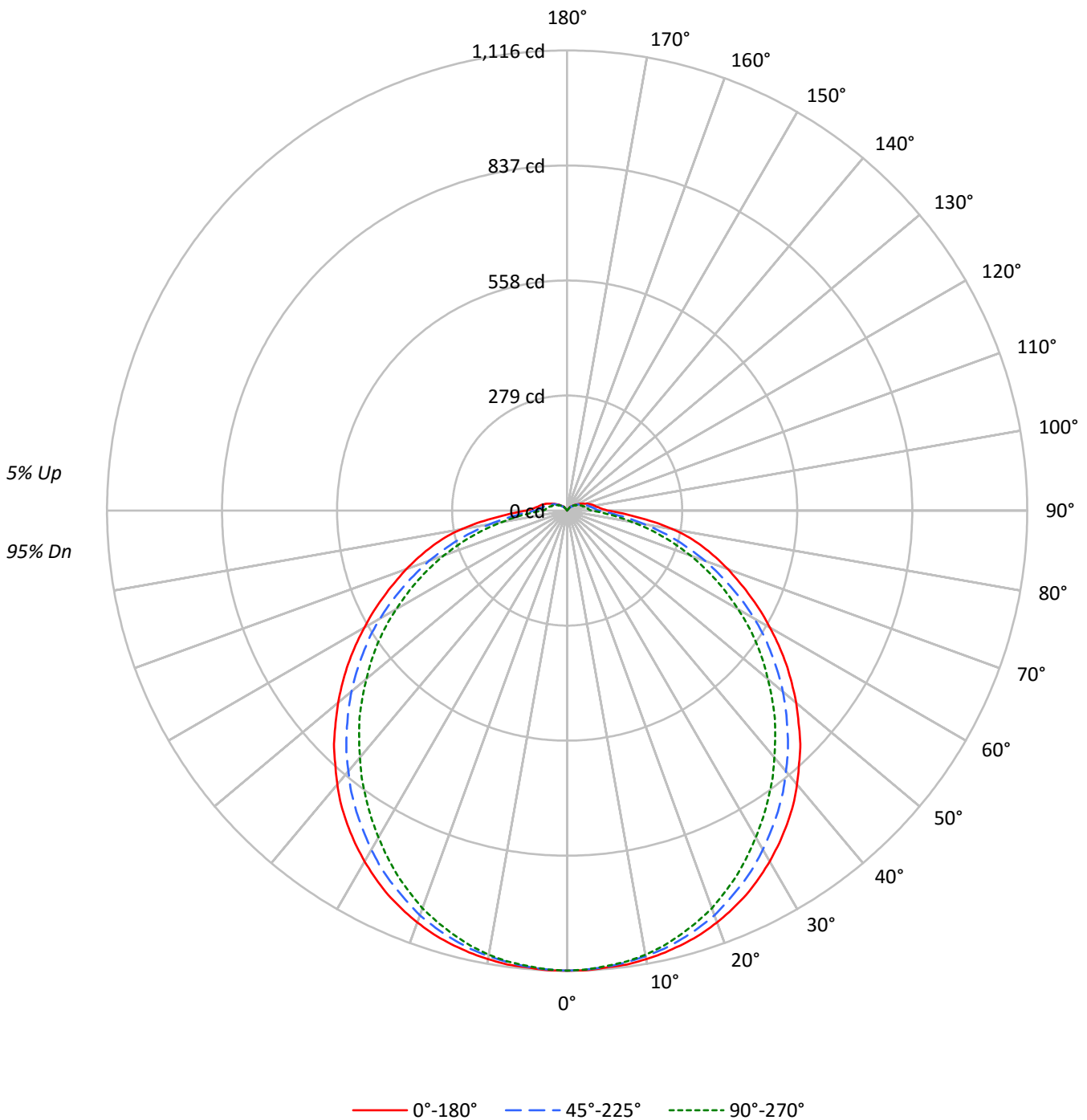
Lumens per Lamp: N/A
Luminaire Lumens: 3618.9 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 30.2
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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	50	30	10	0
RCR																					
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95			95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77			77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63			63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53			53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45			45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38			38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33			33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30			30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26			26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24			24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21			21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1501	1501	1501
5°	1497	1488	1486
10°	1498	1476	1473
15°	1499	1464	1451
20°	1499	1449	1426
25°	1497	1427	1394
30°	1491	1404	1356
35°	1483	1379	1321
40°	1472	1350	1283
45°	1461	1322	1251
50°	1446	1293	1210
55°	1435	1259	1175
60°	1425	1223	1125
65°	1430	1173	1075
70°	1463	1127	1017
75°	1536	1064	941
80°	1636	980	846
85°	1719	925	780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	2.9
10°-20°	303.7	8.4
20°-30°	461.2	12.7
30°-40°	557.1	15.4
40°-50°	583.1	16.1
50°-60°	541.1	15.0
60°-70°	438.2	12.1
70°-80°	295.8	8.2
80°-90°	142.9	3.9
90°-100°	71.9	2.0
100°-110°	52.3	1.4
110°-120°	34.9	1.0
120°-130°	20.2	0.6
130°-140°	10.2	0.3
140°-150°	0.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	870.5	24.1
0°-40°	1427.6	39.4
0°-60°	2551.7	70.5
0°-90°	3428.6	94.7
90°-120°	159.0	4.4
90°-150°	190.3	5.3
90°-180°	190.0	5.3
0°-180°	3618.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1112	1110	1110	1108	1108	106
15°	1088	1083	1076	1068	1065	307
25°	1028	1019	1001	982	975	474
35°	930	917	891	864	851	582
45°	800	785	756	725	712	616
55°	648	634	604	575	561	579
65°	489	471	438	414	398	486
75°	342	307	272	252	237	360
85°	164	142	120	110	99	155
90°	99	90	77	69	58	56
95°	78	73	66	58	51	62
105°	58	55	49	44	40	62
115°	40	36	36	31	31	40
125°	26	22	24	20	22	22
135°	15	13	13	13	15	11
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°	1115.8	1115.8	1115.8	1115.8	1115.8
2.5°	1115.8	1113.9	1113.9	1113.9	1113.9
5°	1112.1	1110.3	1110.3	1108.5	1108.5
7.5°	1110.3	1106.6	1104.8	1103.0	1103.0
10°	1104.8	1101.2	1097.5	1093.9	1093.9
12.5°	1097.5	1093.9	1088.4	1081.1	1081.1
15°	1088.4	1082.9	1075.6	1068.3	1064.6
17.5°	1077.4	1071.9	1061.0	1050.0	1046.4
20°	1062.8	1055.5	1044.6	1029.9	1026.3
22.5°	1046.4	1039.1	1022.6	1008.0	1000.7
25°	1028.1	1019.0	1000.7	982.5	975.2
27.5°	1006.2	997.1	977.0	955.1	945.9
30°	982.5	971.5	949.6	925.9	914.9
32.5°	956.9	944.1	920.4	894.8	883.9
35°	929.5	916.7	891.2	863.8	851.0
37.5°	900.3	887.5	860.1	830.9	818.1
40°	867.4	854.6	825.4	796.2	781.6
42.5°	832.7	821.8	792.5	761.5	746.9
45°	799.9	785.2	756.0	725.0	712.2
47.5°	761.5	750.5	719.5	688.5	673.8
50°	725.0	712.2	683.0	651.9	635.5
52.5°	686.6	675.7	644.6	613.6	599.0
55°	648.3	633.7	604.5	575.2	560.6
57.5°	608.1	595.3	566.1	538.7	520.5
60°	567.9	555.1	524.1	498.5	478.5
62.5°	529.6	515.0	482.1	454.7	438.3
65°	489.4	471.1	438.3	414.5	398.1
67.5°	451.1	429.1	396.3	374.4	357.9
70°	414.5	389.0	356.1	334.2	317.7
72.5°	378.0	347.0	312.3	292.2	277.6
75°	341.5	306.8	272.1	252.0	237.4
77.5°	305.0	264.8	230.1	213.7	199.0
80°	261.1	222.8	189.9	175.3	160.7
82.5°	211.8	180.8	153.4	138.8	127.8
85°	164.4	142.4	120.5	109.6	98.6
87.5°	127.8	111.4	95.0	85.8	76.7
90°	98.6	89.5	76.7	69.4	58.4
92.5°	85.8	78.5	69.4	62.1	53.0
95°	78.5	73.0	65.7	58.4	51.1
97.5°	71.2	67.6	60.3	54.8	47.5
100°	67.6	62.1	56.6	51.1	45.7
102.5°	63.9	58.4	53.0	47.5	43.8
105°	58.4	54.8	49.3	43.8	40.2
107.5°	54.8	49.3	45.7	40.2	38.3
110°	49.3	45.7	42.0	38.3	36.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	43.8	42.0	38.3	34.7	32.9
115°	40.2	36.5	36.5	31.0	31.0
117.5°	36.5	32.9	32.9	29.2	29.2
120°	31.0	29.2	29.2	25.6	25.6
122.5°	27.4	25.6	25.6	23.7	23.7
125°	25.6	21.9	23.7	20.1	21.9
127.5°	21.9	20.1	20.1	18.3	20.1
130°	18.3	16.4	16.4	16.4	18.3
132.5°	16.4	14.6	14.6	14.6	16.4
135°	14.6	12.8	12.8	12.8	14.6
137.5°	12.8	11.0	9.1	11.0	12.8
140°	11.0	9.1	7.3	9.1	11.0
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)