

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: P384685

Luminaire Tested: **24ID-40-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384685
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-40-L850-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

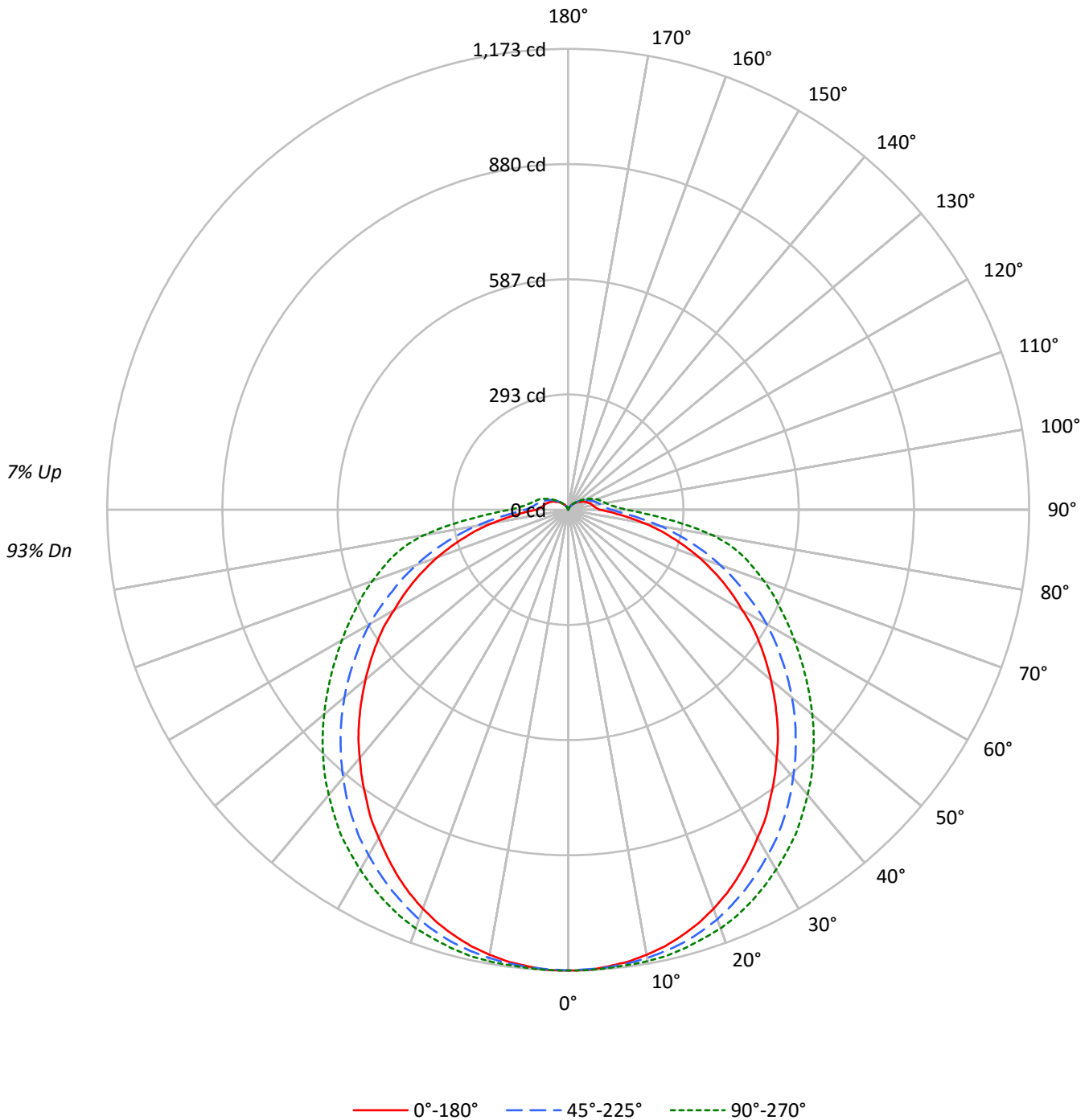
Lumens per Lamp: N/A
Luminaire Lumens: 4104.3 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 35.2
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



TEST NUMBER: P384685
CATALOG NUMBER: 24ID-40-L850-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°	1578	1578	1578
5°	1567	1561	1564
10°	1554	1547	1560
15°	1537	1534	1556
20°	1513	1515	1553
25°	1482	1491	1545
30°	1446	1465	1533
35°	1411	1440	1524
40°	1377	1407	1507
45°	1345	1376	1492
50°	1312	1343	1477
55°	1283	1308	1467
60°	1242	1277	1471
65°	1218	1228	1495
70°	1189	1186	1552
75°	1147	1125	1640
80°	1113	1050	1689
85°	1125	967	1522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	2.7
10°-20°	321.4	7.8
20°-30°	491.0	12.0
30°-40°	597.7	14.6
40°-50°	631.7	15.4
50°-60°	596.3	14.5
60°-70°	501.7	12.2
70°-80°	361.7	8.8
80°-90°	190.8	4.6
90°-100°	102.1	2.5
100°-110°	77.5	1.9
110°-120°	56.2	1.4
120°-130°	35.3	0.9
130°-140°	19.1	0.5
140°-150°	8.3	0.2
150°-160°	2.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	923.6	22.5
0°-40°	1521.3	37.1
0°-60°	2749.3	67.0
0°-90°	3803.4	92.7
90°-120°	235.9	5.7
90°-150°	298.6	7.3
90°-180°	301.0	7.3
0°-180°	4104.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1167	1167	1169	1169	1171	111
15°	1122	1126	1140	1148	1154	316
25°	1028	1040	1066	1091	1101	473
35°	896	917	958	995	1009	561
45°	751	774	819	864	882	580
55°	596	622	663	712	737	532
65°	434	458	495	557	596	429
75°	272	295	323	387	463	289
85°	125	141	158	196	240	117
90°	80	94	108	129	147	46
95°	70	80	92	104	113	55
105°	59	66	74	82	86	62
115°	47	51	57	61	66	47
125°	35	35	41	41	43	31
135°	25	22	25	25	27	19
145°	14	12	12	12	14	9
155°	6	6	2	4	6	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384685

CATALOG NUMBER: 24ID-40-L850-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.9	1172.9	1172.9	1172.9	1172.9
2.5°	1172.9	1170.8	1170.8	1170.8	1172.9
5°	1166.7	1166.7	1168.8	1168.8	1170.8
7.5°	1160.6	1160.6	1164.7	1166.7	1168.8
10°	1150.3	1152.4	1158.5	1162.6	1166.7
12.5°	1138.1	1140.1	1150.3	1158.5	1162.6
15°	1121.7	1125.8	1140.1	1148.3	1154.4
17.5°	1103.3	1109.4	1125.8	1138.1	1144.2
20°	1080.8	1088.9	1109.4	1125.8	1134.0
22.5°	1056.2	1064.4	1088.9	1109.4	1119.6
25°	1027.5	1039.8	1066.4	1091.0	1101.2
27.5°	996.8	1011.2	1041.9	1070.5	1080.8
30°	964.1	980.5	1015.3	1046.0	1058.2
32.5°	933.4	949.8	988.6	1021.4	1033.7
35°	896.5	917.0	957.9	994.8	1009.1
37.5°	861.7	882.2	925.2	964.1	978.4
40°	824.9	845.4	890.4	933.4	947.7
42.5°	790.1	810.6	855.6	900.6	917.0
45°	751.2	773.7	818.8	863.8	882.2
47.5°	712.3	734.8	781.9	829.0	847.4
50°	673.4	698.0	743.0	790.1	810.6
52.5°	634.5	659.1	704.1	753.3	773.7
55°	595.6	622.3	663.2	712.3	736.9
57.5°	556.8	583.4	624.3	675.5	700.0
60°	511.7	542.4	583.4	636.6	665.2
62.5°	472.8	499.4	540.4	595.6	630.4
65°	433.9	458.5	495.3	556.8	595.6
67.5°	393.0	419.6	454.4	511.7	564.9
70°	354.1	376.6	411.4	470.8	530.1
72.5°	313.2	335.7	368.4	429.8	495.3
75°	272.2	294.8	323.4	386.9	462.6
77.5°	235.4	253.8	280.4	341.8	423.7
80°	194.5	212.9	237.4	292.7	372.5
82.5°	157.6	174.0	194.5	243.6	307.0
85°	124.9	141.2	157.6	196.5	239.5
87.5°	100.3	112.6	129.0	157.6	186.3
90°	79.8	94.2	108.5	129.0	147.4
92.5°	73.7	86.0	98.3	114.6	126.9
95°	69.6	79.8	92.1	104.4	112.6
97.5°	65.5	75.7	86.0	98.3	104.4
100°	63.5	71.6	81.9	92.1	96.2
102.5°	61.4	67.5	77.8	86.0	92.1
105°	59.4	65.5	73.7	81.9	86.0
107.5°	55.3	61.4	69.6	77.8	81.9
110°	53.2	57.3	65.5	71.6	77.8



TEST NUMBER: P384685

CATALOG NUMBER: 24ID-40-L850-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	51.2	55.3	61.4	67.5	71.6
115°	47.1	51.2	57.3	61.4	65.5
117.5°	45.0	47.1	53.2	55.3	59.4
120°	40.9	43.0	49.1	51.2	53.2
122.5°	36.8	38.9	45.0	45.0	49.1
125°	34.8	34.8	40.9	40.9	43.0
127.5°	32.8	32.8	36.8	36.8	38.9
130°	28.7	28.7	32.8	32.8	32.8
132.5°	26.6	24.6	28.7	28.7	30.7
135°	24.6	22.5	24.6	24.6	26.6
137.5°	20.5	20.5	22.5	20.5	22.5
140°	18.4	16.4	18.4	18.4	20.5
142.5°	16.4	14.3	16.4	14.3	16.4
145°	14.3	12.3	12.3	12.3	14.3
147.5°	12.3	10.2	10.2	10.2	12.3
150°	10.2	8.2	8.2	8.2	10.2
152.5°	8.2	6.1	4.1	6.1	8.2
155°	6.1	6.1	2.0	4.1	6.1
157.5°	4.1	4.1	0.0	2.0	4.1
160°	2.0	2.0	0.0	2.0	2.0
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)