

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: P384349

Luminaire Tested: **24ID-40-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384349
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-40-L850-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

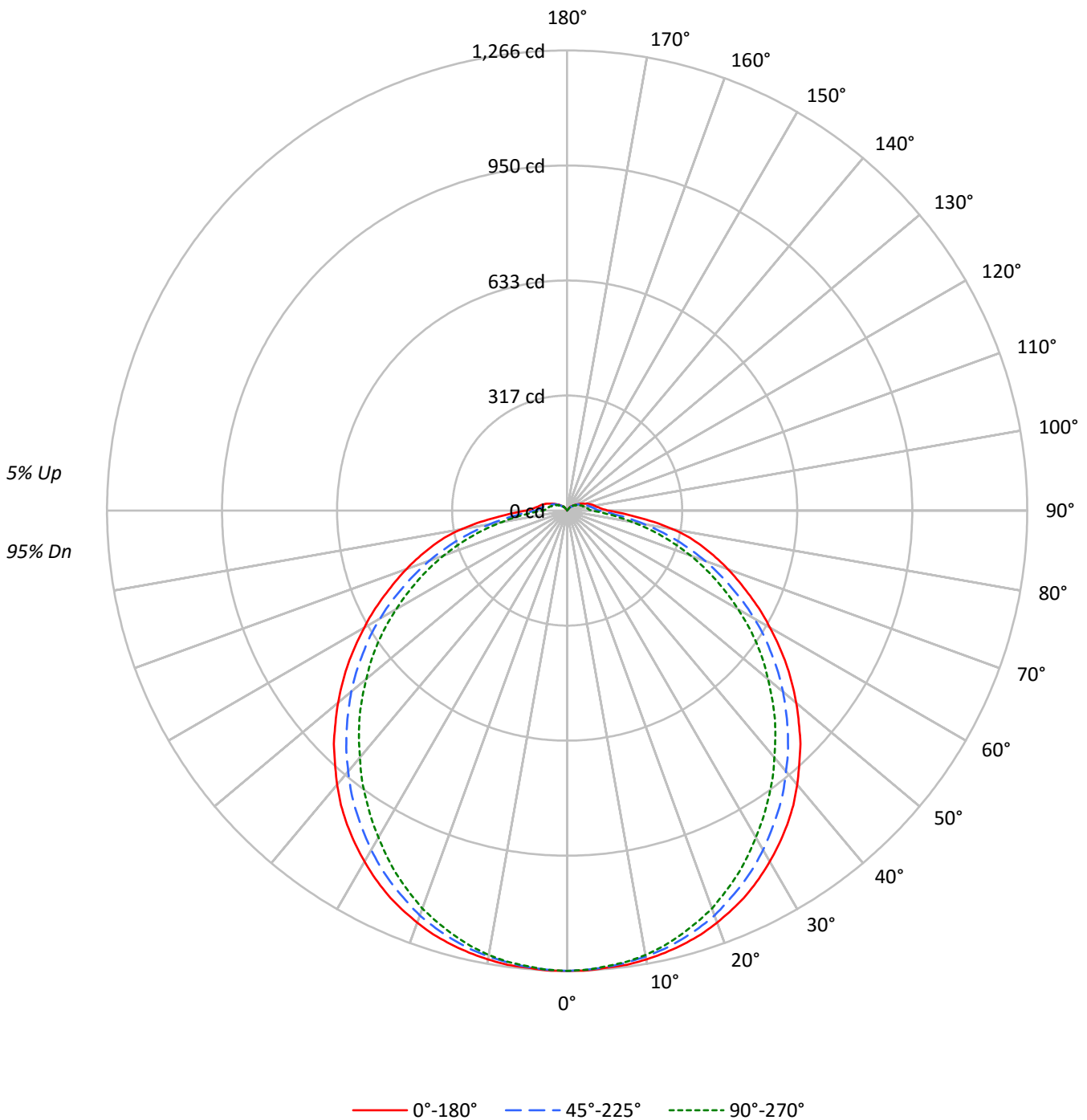
Lumens per Lamp: N/A
Luminaire Lumens: 4107.7 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 35.2
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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1704	1704	1704
5°	1699	1689	1687
10°	1701	1676	1672
15°	1702	1661	1646
20°	1702	1645	1619
25°	1699	1620	1582
30°	1692	1593	1539
35°	1684	1565	1499
40°	1671	1532	1456
45°	1658	1500	1420
50°	1641	1468	1373
55°	1629	1429	1334
60°	1618	1388	1277
65°	1623	1332	1221
70°	1661	1279	1155
75°	1744	1207	1069
80°	1858	1113	960
85°	1951	1051	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	2.9
10°-20°	344.7	8.4
20°-30°	523.5	12.7
30°-40°	632.3	15.4
40°-50°	661.9	16.1
50°-60°	614.1	15.0
60°-70°	497.4	12.1
70°-80°	335.7	8.2
80°-90°	162.2	3.9
90°-100°	81.6	2.0
100°-110°	59.3	1.4
110°-120°	39.6	1.0
120°-130°	23.0	0.6
130°-140°	11.6	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°	988.1	24.1
0°-40°	1620.4	39.4
0°-60°	2896.4	70.5
0°-90°	3891.7	94.7
90°-120°	180.5	4.4
90°-150°	216.0	5.3
90°-180°	216.0	5.3
0°-180°	4107.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1266	1266	1266	1266	1266	
5°	1262	1260	1260	1258	1258	120
15°	1235	1229	1221	1213	1208	349
25°	1167	1157	1136	1115	1107	538
35°	1055	1040	1012	980	966	660
45°	908	891	858	823	808	699
55°	736	719	686	653	636	658
65°	556	535	498	470	452	551
75°	388	348	309	286	270	408
85°	187	162	137	124	112	176
90°	112	102	87	79	66	64
95°	89	83	75	66	58	70
105°	66	62	56	50	46	71
115°	46	42	42	35	35	45
125°	29	25	27	23	25	25
135°	17	14	14	14	17	13
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°	1266.5	1266.5	1266.5	1266.5	1266.5
2.5°	1266.5	1264.4	1264.4	1264.4	1264.4
5°	1262.3	1260.3	1260.3	1258.2	1258.2
7.5°	1260.3	1256.1	1254.0	1252.0	1252.0
10°	1254.0	1249.9	1245.8	1241.6	1241.6
12.5°	1245.8	1241.6	1235.4	1227.1	1227.1
15°	1235.4	1229.2	1220.9	1212.6	1208.4
17.5°	1223.0	1216.7	1204.3	1191.9	1187.7
20°	1206.4	1198.1	1185.6	1169.1	1164.9
22.5°	1187.7	1179.4	1160.8	1144.2	1135.9
25°	1167.0	1156.6	1135.9	1115.2	1106.9
27.5°	1142.1	1131.7	1108.9	1084.1	1073.7
30°	1115.2	1102.7	1077.9	1050.9	1038.5
32.5°	1086.1	1071.6	1044.7	1015.7	1003.2
35°	1055.1	1040.5	1011.5	980.4	965.9
37.5°	1021.9	1007.4	976.3	943.1	928.6
40°	984.6	970.1	936.9	903.7	887.2
42.5°	945.2	932.8	899.6	864.4	847.8
45°	907.9	891.3	858.1	822.9	808.4
47.5°	864.4	851.9	816.7	781.4	764.9
50°	822.9	808.4	775.2	740.0	721.3
52.5°	779.4	766.9	731.7	696.5	679.9
55°	735.8	719.3	686.1	652.9	636.3
57.5°	690.2	675.7	642.6	611.5	590.7
60°	644.6	630.1	594.9	565.9	543.1
62.5°	601.1	584.5	547.2	516.1	497.5
65°	555.5	534.8	497.5	470.5	451.9
67.5°	512.0	487.1	449.8	424.9	406.3
70°	470.5	441.5	404.2	379.3	360.7
72.5°	429.1	393.8	354.4	331.6	315.1
75°	387.6	348.2	308.8	286.0	269.5
77.5°	346.2	300.6	261.2	242.5	225.9
80°	296.4	252.9	215.6	199.0	182.4
82.5°	240.4	205.2	174.1	157.5	145.1
85°	186.6	161.7	136.8	124.4	111.9
87.5°	145.1	126.4	107.8	97.4	87.1
90°	111.9	101.6	87.1	78.8	66.3
92.5°	97.4	89.1	78.8	70.5	60.1
95°	89.1	82.9	74.6	66.3	58.0
97.5°	80.8	76.7	68.4	62.2	53.9
100°	76.7	70.5	64.3	58.0	51.8
102.5°	72.5	66.3	60.1	53.9	49.7
105°	66.3	62.2	56.0	49.7	45.6
107.5°	62.2	56.0	51.8	45.6	43.5
110°	56.0	51.8	47.7	43.5	41.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	49.7	47.7	43.5	39.4	37.3
115°	45.6	41.5	41.5	35.2	35.2
117.5°	41.5	37.3	37.3	33.2	33.2
120°	35.2	33.2	33.2	29.0	29.0
122.5°	31.1	29.0	29.0	26.9	26.9
125°	29.0	24.9	26.9	22.8	24.9
127.5°	24.9	22.8	22.8	20.7	22.8
130°	20.7	18.7	18.7	18.7	20.7
132.5°	18.7	16.6	16.6	16.6	18.7
135°	16.6	14.5	14.5	14.5	16.6
137.5°	14.5	12.4	10.4	12.4	14.5
140°	12.4	10.4	8.3	10.4	12.4
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)