

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: P384177

Luminaire Tested: **24ID-35-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384177
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-35-L850-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

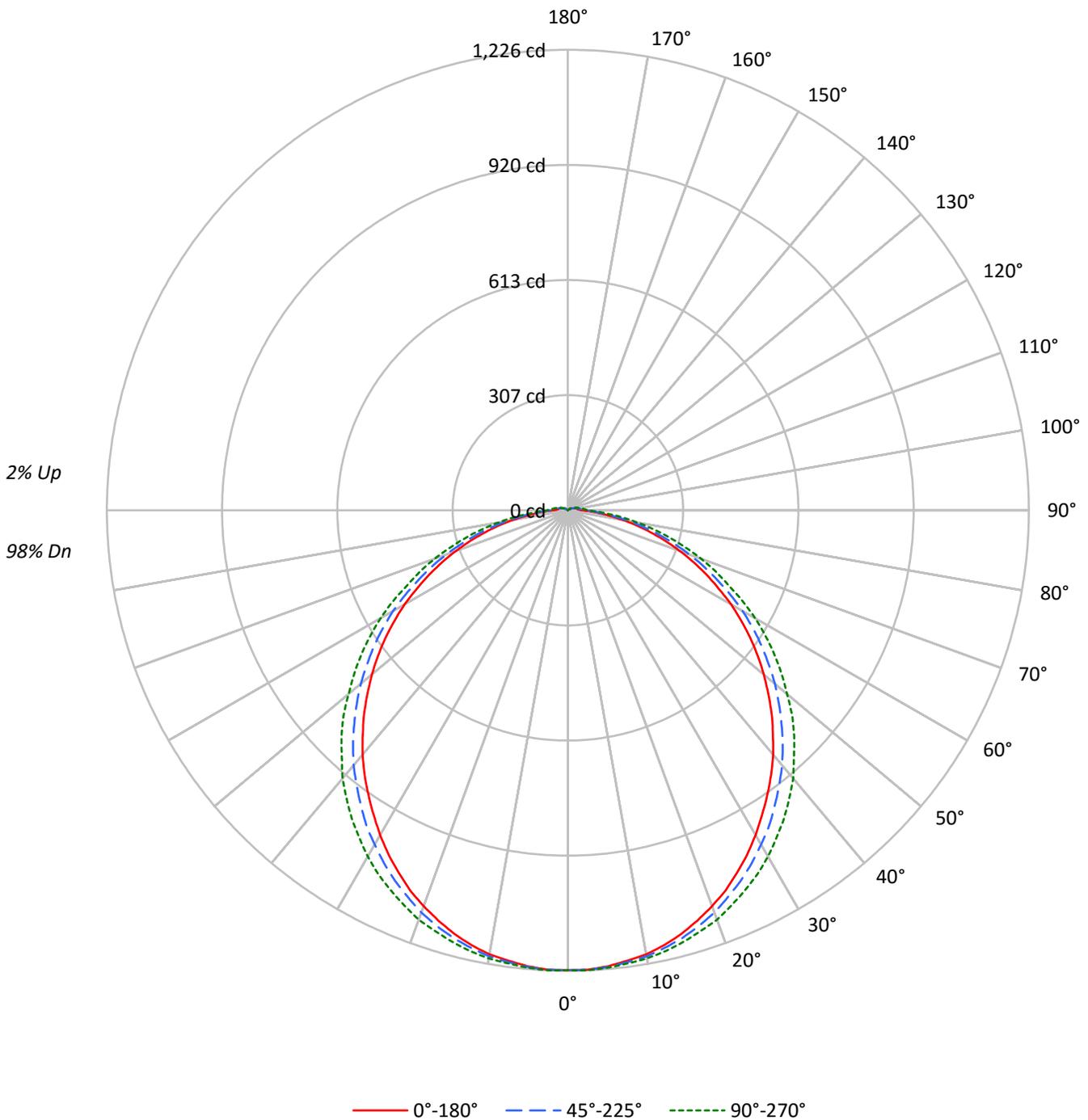
Lumens per Lamp: N/A
Luminaire Lumens: 3625.7 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 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	
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°	1647	1647	1647
5°	1643	1642	1645
10°	1634	1635	1643
15°	1617	1622	1638
20°	1593	1606	1636
25°	1565	1583	1625
30°	1532	1557	1615
35°	1497	1529	1599
40°	1466	1501	1582
45°	1429	1464	1555
50°	1389	1429	1518
55°	1348	1387	1485
60°	1303	1342	1444
65°	1244	1272	1375
70°	1177	1206	1330
75°	1099	1116	1257
80°	1019	1014	1175
85°	985	943	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	3.2
10°-20°	332.4	9.2
20°-30°	501.8	13.8
30°-40°	601.2	16.6
40°-50°	621.6	17.1
50°-60°	562.9	15.5
60°-70°	435.6	12.0
70°-80°	267.6	7.4
80°-90°	106.3	2.9
90°-100°	38.8	1.1
100°-110°	23.8	0.7
110°-120°	12.3	0.3
120°-130°	5.2	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°	950.1	26.2
0°-40°	1551.3	42.8
0°-60°	2735.8	75.5
0°-90°	3545.2	97.8
90°-120°	74.9	2.1
90°-150°	80.5	2.2
90°-180°	80.0	2.2
0°-180°	3625.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1219	1219	1220	1220	1222	116
15°	1167	1169	1178	1186	1189	329
25°	1064	1072	1088	1107	1116	490
35°	925	936	960	985	1002	579
45°	766	776	803	836	851	591
55°	592	605	629	656	671	529
65°	408	417	438	460	471	404
75°	228	239	250	266	279	243
85°	79	85	92	101	107	79
90°	37	42	46	52	55	22
95°	28	31	35	39	42	22
105°	20	20	22	24	26	21
115°	13	11	11	13	15	13
125°	7	6	4	6	7	7
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1224.2	1224.2	1224.2	1224.2	1224.2
2.5°	1224.2	1222.4	1224.2	1224.2	1226.0
5°	1218.7	1218.7	1220.5	1220.5	1222.4
7.5°	1209.5	1209.5	1213.2	1215.0	1216.9
10°	1200.3	1200.3	1205.8	1207.7	1211.3
12.5°	1185.6	1187.4	1193.0	1198.5	1202.1
15°	1167.2	1169.1	1178.2	1185.6	1189.3
17.5°	1145.2	1148.8	1159.9	1170.9	1174.6
20°	1121.3	1126.8	1139.6	1152.5	1159.9
22.5°	1095.5	1099.2	1113.9	1130.5	1137.8
25°	1064.3	1071.6	1088.2	1106.6	1115.8
27.5°	1033.0	1040.4	1058.8	1080.8	1091.9
30°	998.1	1005.5	1027.5	1051.4	1064.3
32.5°	961.3	970.5	996.3	1020.2	1033.0
35°	924.6	935.6	959.5	985.2	1001.8
37.5°	887.8	897.0	922.7	950.3	966.9
40°	849.2	858.4	886.0	913.6	931.9
42.5°	806.9	818.0	845.5	875.0	889.7
45°	766.5	775.7	803.3	836.4	851.1
47.5°	722.4	735.3	761.0	792.2	808.8
50°	680.1	691.1	718.7	748.1	761.0
52.5°	636.0	647.0	672.8	702.2	716.9
55°	591.9	604.7	628.6	656.2	670.9
57.5°	545.9	558.8	582.7	606.6	623.1
60°	501.8	514.7	536.7	560.6	575.3
62.5°	452.2	463.2	487.1	512.8	523.9
65°	408.1	417.3	437.5	459.5	470.6
67.5°	362.1	373.1	391.5	411.7	424.6
70°	316.2	329.0	343.7	362.1	376.8
72.5°	272.0	283.1	295.9	314.3	327.2
75°	227.9	239.0	250.0	266.5	279.4
77.5°	189.3	194.8	205.9	220.6	233.4
80°	147.1	154.4	163.6	178.3	187.5
82.5°	110.3	117.6	125.0	136.0	145.2
85°	79.0	84.6	91.9	101.1	106.6
87.5°	53.3	58.8	64.3	71.7	77.2
90°	36.8	42.3	46.0	51.5	55.1
92.5°	31.2	34.9	38.6	42.3	46.0
95°	27.6	31.2	34.9	38.6	42.3
97.5°	25.7	27.6	31.2	34.9	36.8
100°	23.9	25.7	27.6	31.2	33.1
102.5°	22.1	22.1	25.7	27.6	29.4
105°	20.2	20.2	22.1	23.9	25.7
107.5°	18.4	18.4	20.2	20.2	23.9
110°	16.5	14.7	16.5	16.5	20.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.7	12.9	14.7	14.7	16.5
115°	12.9	11.0	11.0	12.9	14.7
117.5°	11.0	9.2	9.2	9.2	12.9
120°	11.0	9.2	7.4	7.4	11.0
122.5°	9.2	7.4	5.5	7.4	9.2
125°	7.4	5.5	3.7	5.5	7.4
127.5°	5.5	5.5	1.8	3.7	5.5
130°	5.5	3.7	1.8	3.7	3.7
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)