

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: P384681

Luminaire Tested: **24ID-35-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384681
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-35-L850-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

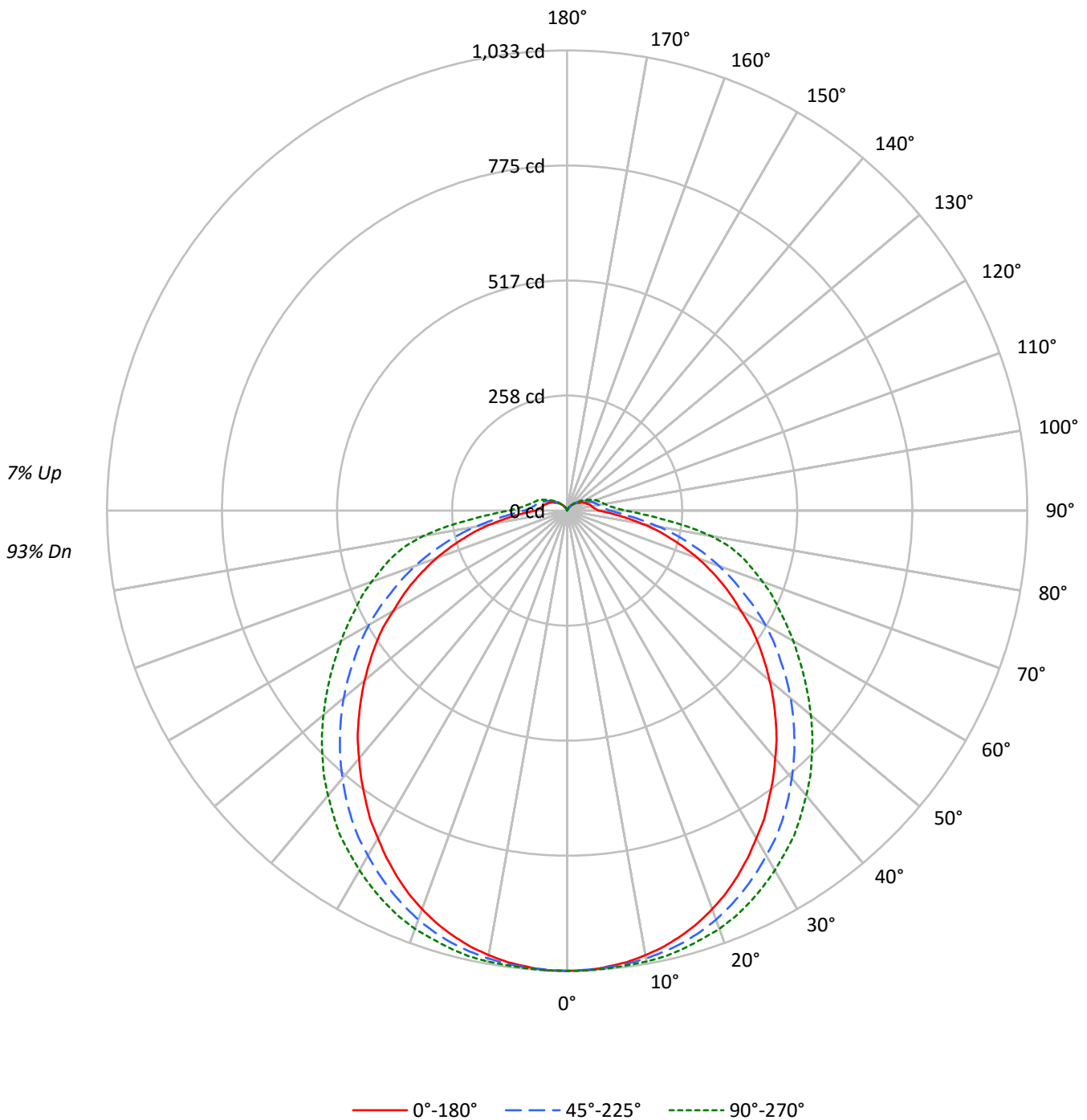
Lumens per Lamp: N/A
Luminaire Lumens: 3615.9 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 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	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°	1390	1390	1390
5°	1381	1375	1378
10°	1370	1363	1374
15°	1354	1351	1371
20°	1333	1335	1368
25°	1306	1314	1361
30°	1274	1291	1351
35°	1243	1268	1343
40°	1213	1240	1327
45°	1185	1212	1315
50°	1156	1183	1301
55°	1130	1152	1292
60°	1095	1125	1296
65°	1073	1082	1318
70°	1048	1045	1368
75°	1011	991	1445
80°	980	925	1488
85°	991	852	1341



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	2.7
10°-20°	283.1	7.8
20°-30°	432.6	12.0
30°-40°	526.6	14.6
40°-50°	556.5	15.4
50°-60°	525.3	14.5
60°-70°	442.0	12.2
70°-80°	318.7	8.8
80°-90°	168.1	4.6
90°-100°	89.9	2.5
100°-110°	68.3	1.9
110°-120°	49.6	1.4
120°-130°	31.1	0.9
130°-140°	16.8	0.5
140°-150°	7.3	0.2
150°-160°	2.0	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	813.7	22.5
0°-40°	1340.2	37.1
0°-60°	2422.1	67.0
0°-90°	3350.8	92.7
90°-120°	207.8	5.7
90°-150°	263.1	7.3
90°-180°	265.0	7.3
0°-180°	3615.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1033	1033	1033	1033	1033	
5°	1028	1028	1030	1030	1032	98
15°	988	992	1004	1012	1017	279
25°	905	916	940	961	970	417
35°	790	808	844	876	889	495
45°	662	682	721	761	777	511
55°	525	548	584	628	649	469
65°	382	404	436	490	525	378
75°	240	260	285	341	408	255
85°	110	124	139	173	211	103
90°	70	83	96	114	130	40
95°	61	70	81	92	99	49
105°	52	58	65	72	76	55
115°	42	45	50	54	58	42
125°	31	31	36	36	38	28
135°	22	20	22	22	23	16
145°	13	11	11	11	13	8
155°	5	5	2	4	5	3
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°	1033.3	1033.3	1033.3	1033.3	1033.3
2.5°	1033.3	1031.5	1031.5	1031.5	1033.3
5°	1027.9	1027.9	1029.7	1029.7	1031.5
7.5°	1022.5	1022.5	1026.1	1027.9	1029.7
10°	1013.5	1015.3	1020.7	1024.3	1027.9
12.5°	1002.6	1004.4	1013.5	1020.7	1024.3
15°	988.2	991.8	1004.4	1011.7	1017.1
17.5°	972.0	977.4	991.8	1002.6	1008.0
20°	952.1	959.4	977.4	991.8	999.0
22.5°	930.5	937.7	959.4	977.4	986.4
25°	905.3	916.1	939.5	961.2	970.2
27.5°	878.2	890.8	917.9	943.1	952.1
30°	849.4	863.8	894.4	921.5	932.3
32.5°	822.3	836.7	871.0	899.9	910.7
35°	789.8	807.9	843.9	876.4	889.0
37.5°	759.2	777.2	815.1	849.4	862.0
40°	726.7	744.8	784.4	822.3	834.9
42.5°	696.1	714.1	753.8	793.5	807.9
45°	661.8	681.7	721.3	761.0	777.2
47.5°	627.6	647.4	688.9	730.3	746.6
50°	593.3	614.9	654.6	696.1	714.1
52.5°	559.0	580.7	620.3	663.6	681.7
55°	524.8	548.2	584.3	627.6	649.2
57.5°	490.5	513.9	550.0	595.1	616.7
60°	450.8	477.9	513.9	560.8	586.1
62.5°	416.6	440.0	476.1	524.8	555.4
65°	382.3	403.9	436.4	490.5	524.8
67.5°	346.2	369.7	400.3	450.8	497.7
70°	312.0	331.8	362.5	414.8	467.1
72.5°	275.9	295.7	324.6	378.7	436.4
75°	239.8	259.7	284.9	340.8	407.5
77.5°	207.4	223.6	247.1	301.2	373.3
80°	171.3	187.5	209.2	257.9	328.2
82.5°	138.9	153.3	171.3	214.6	270.5
85°	110.0	124.4	138.9	173.1	211.0
87.5°	88.4	99.2	113.6	138.9	164.1
90°	70.3	83.0	95.6	113.6	129.8
92.5°	64.9	75.7	86.6	101.0	111.8
95°	61.3	70.3	81.1	92.0	99.2
97.5°	57.7	66.7	75.7	86.6	92.0
100°	55.9	63.1	72.1	81.1	84.8
102.5°	54.1	59.5	68.5	75.7	81.1
105°	52.3	57.7	64.9	72.1	75.7
107.5°	48.7	54.1	61.3	68.5	72.1
110°	46.9	50.5	57.7	63.1	68.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	45.1	48.7	54.1	59.5	63.1
115°	41.5	45.1	50.5	54.1	57.7
117.5°	39.7	41.5	46.9	48.7	52.3
120°	36.1	37.9	43.3	45.1	46.9
122.5°	32.5	34.3	39.7	39.7	43.3
125°	30.7	30.7	36.1	36.1	37.9
127.5°	28.9	28.9	32.5	32.5	34.3
130°	25.2	25.2	28.9	28.9	28.9
132.5°	23.4	21.6	25.2	25.2	27.0
135°	21.6	19.8	21.6	21.6	23.4
137.5°	18.0	18.0	19.8	18.0	19.8
140°	16.2	14.4	16.2	16.2	18.0
142.5°	14.4	12.6	14.4	12.6	14.4
145°	12.6	10.8	10.8	10.8	12.6
147.5°	10.8	9.0	9.0	9.0	10.8
150°	9.0	7.2	7.2	7.2	9.0
152.5°	7.2	5.4	3.6	5.4	7.2
155°	5.4	5.4	1.8	3.6	5.4
157.5°	3.6	3.6	0.0	1.8	3.6
160°	1.8	1.8	0.0	1.8	1.8
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)