

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: P384173

Luminaire Tested: **24ID-30-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384173
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-30-L850-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

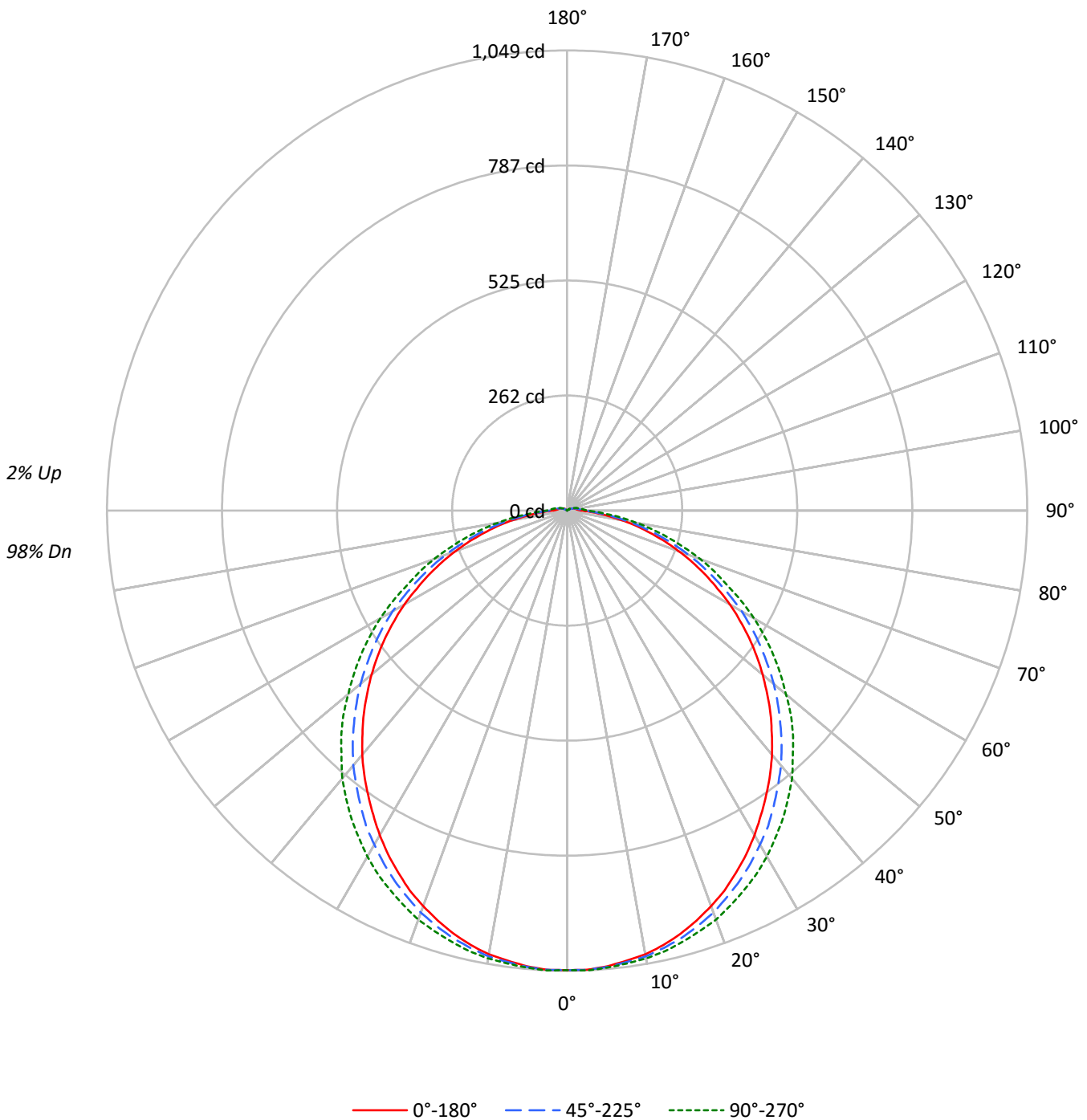
Lumens per Lamp: N/A
Luminaire Lumens: 3102.6 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 25.6
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°	1410	1410	1410
5°	1406	1405	1408
10°	1398	1399	1406
15°	1384	1388	1402
20°	1364	1374	1400
25°	1339	1355	1390
30°	1311	1332	1382
35°	1281	1308	1368
40°	1254	1284	1353
45°	1223	1253	1330
50°	1189	1223	1299
55°	1154	1187	1271
60°	1115	1148	1236
65°	1064	1089	1177
70°	1007	1032	1138
75°	941	955	1076
80°	872	867	1005
85°	843	806	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.2
10°-20°	284.4	9.2
20°-30°	429.4	13.8
30°-40°	514.5	16.6
40°-50°	531.9	17.1
50°-60°	481.7	15.5
60°-70°	372.7	12.0
70°-80°	229.0	7.4
80°-90°	91.0	2.9
90°-100°	33.2	1.1
100°-110°	20.4	0.7
110°-120°	10.5	0.3
120°-130°	4.5	0.1
130°-140°	0.3	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°	813.0	26.2
0°-40°	1327.5	42.8
0°-60°	2341.1	75.5
0°-90°	3033.7	97.8
90°-120°	64.1	2.1
90°-150°	68.8	2.2
90°-180°	69.0	2.2
0°-180°	3102.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1043	1043	1044	1044	1046	99
15°	999	1000	1008	1014	1018	282
25°	911	917	931	947	955	420
35°	791	801	821	843	857	495
45°	656	664	687	716	728	506
55°	506	518	538	562	574	453
65°	349	357	374	393	403	345
75°	195	204	214	228	239	208
85°	68	72	79	86	91	67
90°	32	36	39	44	47	19
95°	24	27	30	33	36	19
105°	17	17	19	20	22	18
115°	11	9	9	11	13	11
125°	6	5	3	5	6	6
135°	0	0	0	0	0	0
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°	1047.6	1047.6	1047.6	1047.6	1047.6
2.5°	1047.6	1046.0	1047.6	1047.6	1049.2
5°	1042.9	1042.9	1044.4	1044.4	1046.0
7.5°	1035.0	1035.0	1038.1	1039.7	1041.3
10°	1027.1	1027.1	1031.9	1033.4	1036.6
12.5°	1014.5	1016.1	1020.8	1025.6	1028.7
15°	998.8	1000.4	1008.3	1014.5	1017.7
17.5°	979.9	983.1	992.5	1002.0	1005.1
20°	959.5	964.2	975.2	986.2	992.5
22.5°	937.5	940.6	953.2	967.4	973.7
25°	910.7	917.0	931.2	946.9	954.8
27.5°	884.0	890.3	906.0	924.9	934.3
30°	854.1	860.4	879.3	899.7	910.7
32.5°	822.6	830.5	852.5	873.0	884.0
35°	791.2	800.6	821.1	843.1	857.3
37.5°	759.7	767.6	789.6	813.2	827.4
40°	726.7	734.6	758.2	781.8	797.5
42.5°	690.5	700.0	723.6	748.7	761.3
45°	655.9	663.8	687.4	715.7	728.3
47.5°	618.2	629.2	651.2	677.9	692.1
50°	582.0	591.4	615.0	640.2	651.2
52.5°	544.2	553.7	575.7	600.9	613.4
55°	506.5	517.5	537.9	561.5	574.1
57.5°	467.2	478.2	498.6	519.1	533.2
60°	429.4	440.4	459.3	479.7	492.3
62.5°	386.9	396.4	416.8	438.9	448.3
65°	349.2	357.1	374.4	393.2	402.7
67.5°	309.9	319.3	335.0	352.3	363.3
70°	270.5	281.6	294.1	309.9	322.5
72.5°	232.8	242.2	253.2	269.0	280.0
75°	195.0	204.5	213.9	228.1	239.1
77.5°	162.0	166.7	176.2	188.8	199.8
80°	125.8	132.1	140.0	152.6	160.4
82.5°	94.4	100.7	107.0	116.4	124.3
85°	67.6	72.4	78.6	86.5	91.2
87.5°	45.6	50.3	55.1	61.3	66.1
90°	31.5	36.2	39.3	44.0	47.2
92.5°	26.7	29.9	33.0	36.2	39.3
95°	23.6	26.7	29.9	33.0	36.2
97.5°	22.0	23.6	26.7	29.9	31.5
100°	20.4	22.0	23.6	26.7	28.3
102.5°	18.9	18.9	22.0	23.6	25.2
105°	17.3	17.3	18.9	20.4	22.0
107.5°	15.7	15.7	17.3	17.3	20.4
110°	14.2	12.6	14.2	14.2	17.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.6	11.0	12.6	12.6	14.2
115°	11.0	9.4	9.4	11.0	12.6
117.5°	9.4	7.9	7.9	7.9	11.0
120°	9.4	7.9	6.3	6.3	9.4
122.5°	7.9	6.3	4.7	6.3	7.9
125°	6.3	4.7	3.1	4.7	6.3
127.5°	4.7	4.7	1.6	3.1	4.7
130°	4.7	3.1	1.6	3.1	3.1
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)