

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: P384625

Luminaire Tested: **22ID-30-L850-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384625  
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: 22ID-30-L850-CFD3  
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

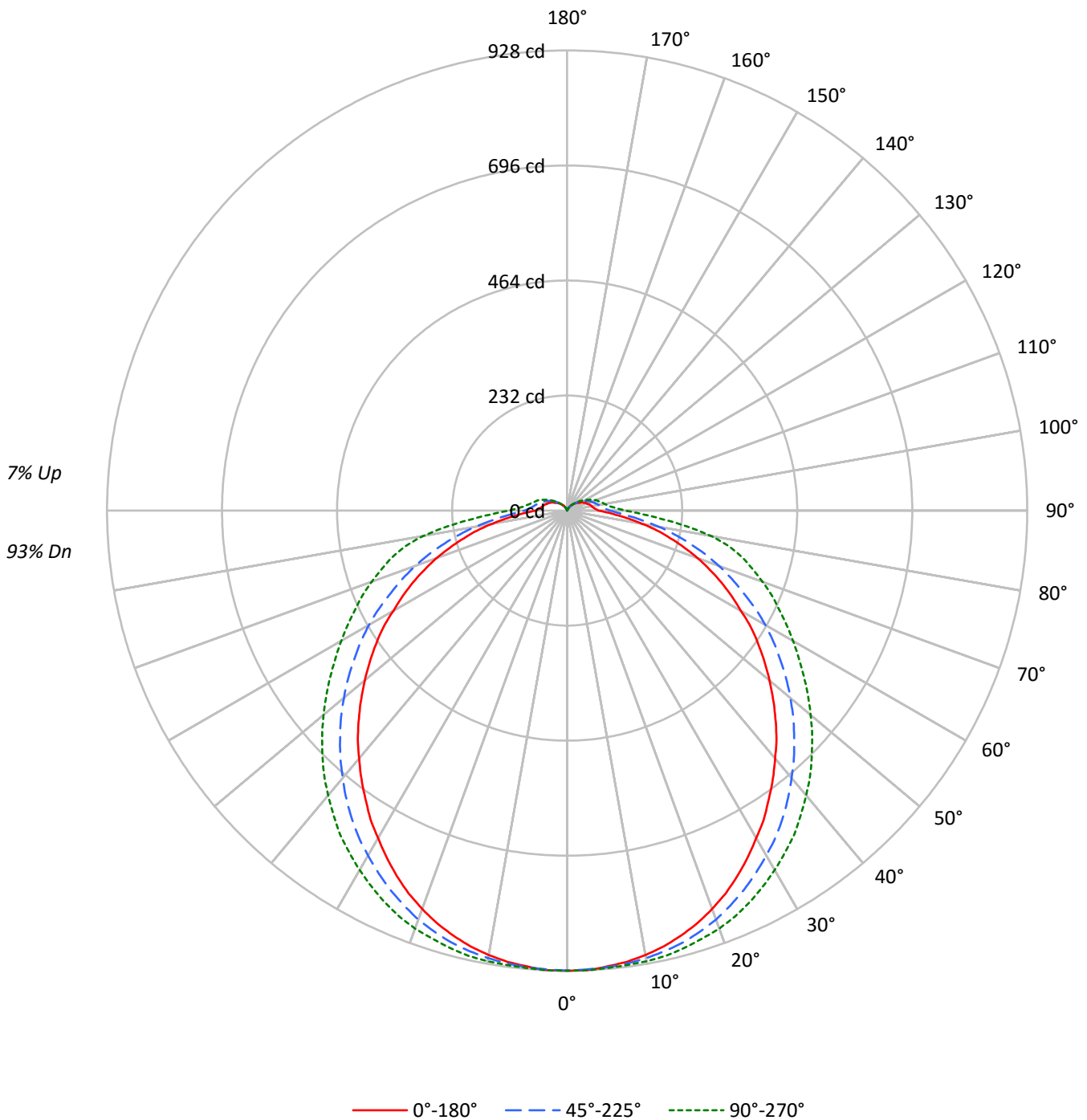
Lumens per Lamp: N/A  
Luminaire Lumens: 3246.6 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 24.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2497	2497	2497
5°	2466	2459	2475
10°	2433	2428	2467
15°	2392	2399	2462
20°	2342	2361	2457
25°	2280	2314	2444
30°	2210	2264	2426
35°	2142	2215	2411
40°	2075	2154	2384
45°	2010	2095	2360
50°	1941	2032	2336
55°	1876	1965	2320
60°	1791	1902	2328
65°	1724	1809	2366
70°	1640	1723	2456
75°	1526	1602	2594
80°	1395	1453	2672
85°	1256	1275	2408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	2.7
10°-20°	254.2	7.8
20°-30°	388.4	12.0
30°-40°	472.8	14.6
40°-50°	499.7	15.4
50°-60°	471.7	14.5
60°-70°	396.8	12.2
70°-80°	286.1	8.8
80°-90°	150.9	4.6
90°-100°	80.8	2.5
100°-110°	61.3	1.9
110°-120°	44.5	1.4
120°-130°	27.9	0.9
130°-140°	15.1	0.5
140°-150°	6.6	0.2
150°-160°	1.8	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	730.6	22.5
0°-40°	1203.3	37.1
0°-60°	2174.7	67.0
0°-90°	3008.6	92.7
90°-120°	186.6	5.7
90°-150°	236.2	7.3
90°-180°	238.0	7.3
0°-180°	3246.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	923	923	924	924	926	88
15°	887	890	902	908	913	250
25°	813	822	844	863	871	374
35°	709	725	758	787	798	444
45°	594	612	648	683	698	459
55°	471	492	525	564	583	421
65°	343	363	392	440	471	339
75°	215	233	256	306	366	229
85°	99	112	125	155	189	93
90°	63	74	86	102	117	36
95°	55	63	73	83	89	44
105°	47	52	58	65	68	49
115°	37	40	45	49	52	37
125°	28	28	32	32	34	25
135°	19	18	19	19	21	15
145°	11	10	10	10	11	7
155°	5	5	2	3	5	2
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°	927.8	927.8	927.8	927.8	927.8
2.5°	927.8	926.1	926.1	926.1	927.8
5°	922.9	922.9	924.5	924.5	926.1
7.5°	918.0	918.0	921.3	922.9	924.5
10°	910.0	911.6	916.4	919.7	922.9
12.5°	900.2	901.9	910.0	916.4	919.7
15°	887.3	890.5	901.9	908.3	913.2
17.5°	872.7	877.6	890.5	900.2	905.1
20°	854.9	861.4	877.6	890.5	897.0
22.5°	835.5	841.9	861.4	877.6	885.7
25°	812.8	822.5	843.6	863.0	871.1
27.5°	788.5	799.9	824.1	846.8	854.9
30°	762.6	775.6	803.1	827.4	837.1
32.5°	738.3	751.3	782.0	807.9	817.7
35°	709.2	725.4	757.8	786.9	798.2
37.5°	681.7	697.8	731.8	762.6	773.9
40°	652.5	668.7	704.3	738.3	749.7
42.5°	625.0	641.2	676.8	712.4	725.4
45°	594.2	612.0	647.7	683.3	697.8
47.5°	563.5	581.3	618.5	655.7	670.3
50°	532.7	552.1	587.7	625.0	641.2
52.5°	501.9	521.4	557.0	595.8	612.0
55°	471.2	492.2	524.6	563.5	582.9
57.5°	440.4	461.5	493.8	534.3	553.7
60°	404.8	429.1	461.5	503.6	526.2
62.5°	374.0	395.1	427.5	471.2	498.7
65°	343.3	362.7	391.8	440.4	471.2
67.5°	310.9	331.9	359.4	404.8	446.9
70°	280.1	297.9	325.4	372.4	419.4
72.5°	247.7	265.5	291.4	340.0	391.8
75°	215.3	233.2	255.8	306.0	365.9
77.5°	186.2	200.8	221.8	270.4	335.2
80°	153.8	168.4	187.8	231.5	294.7
82.5°	124.7	137.6	153.8	192.7	242.9
85°	98.8	111.7	124.7	155.4	189.4
87.5°	79.3	89.1	102.0	124.7	147.3
90°	63.1	74.5	85.8	102.0	116.6
92.5°	58.3	68.0	77.7	90.7	100.4
95°	55.1	63.1	72.9	82.6	89.1
97.5°	51.8	59.9	68.0	77.7	82.6
100°	50.2	56.7	64.8	72.9	76.1
102.5°	48.6	53.4	61.5	68.0	72.9
105°	47.0	51.8	58.3	64.8	68.0
107.5°	43.7	48.6	55.1	61.5	64.8
110°	42.1	45.3	51.8	56.7	61.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	40.5	43.7	48.6	53.4	56.7
115°	37.2	40.5	45.3	48.6	51.8
117.5°	35.6	37.2	42.1	43.7	47.0
120°	32.4	34.0	38.9	40.5	42.1
122.5°	29.1	30.8	35.6	35.6	38.9
125°	27.5	27.5	32.4	32.4	34.0
127.5°	25.9	25.9	29.1	29.1	30.8
130°	22.7	22.7	25.9	25.9	25.9
132.5°	21.0	19.4	22.7	22.7	24.3
135°	19.4	17.8	19.4	19.4	21.0
137.5°	16.2	16.2	17.8	16.2	17.8
140°	14.6	13.0	14.6	14.6	16.2
142.5°	13.0	11.3	13.0	11.3	13.0
145°	11.3	9.7	9.7	9.7	11.3
147.5°	9.7	8.1	8.1	8.1	9.7
150°	8.1	6.5	6.5	6.5	8.1
152.5°	6.5	4.9	3.2	4.9	6.5
155°	4.9	4.9	1.6	3.2	4.9
157.5°	3.2	3.2	0.0	1.6	3.2
160°	1.6	1.6	0.0	1.6	1.6
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)