

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: P384341

Luminaire Tested: **24ID-30-L850-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384341  
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-30-L850-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

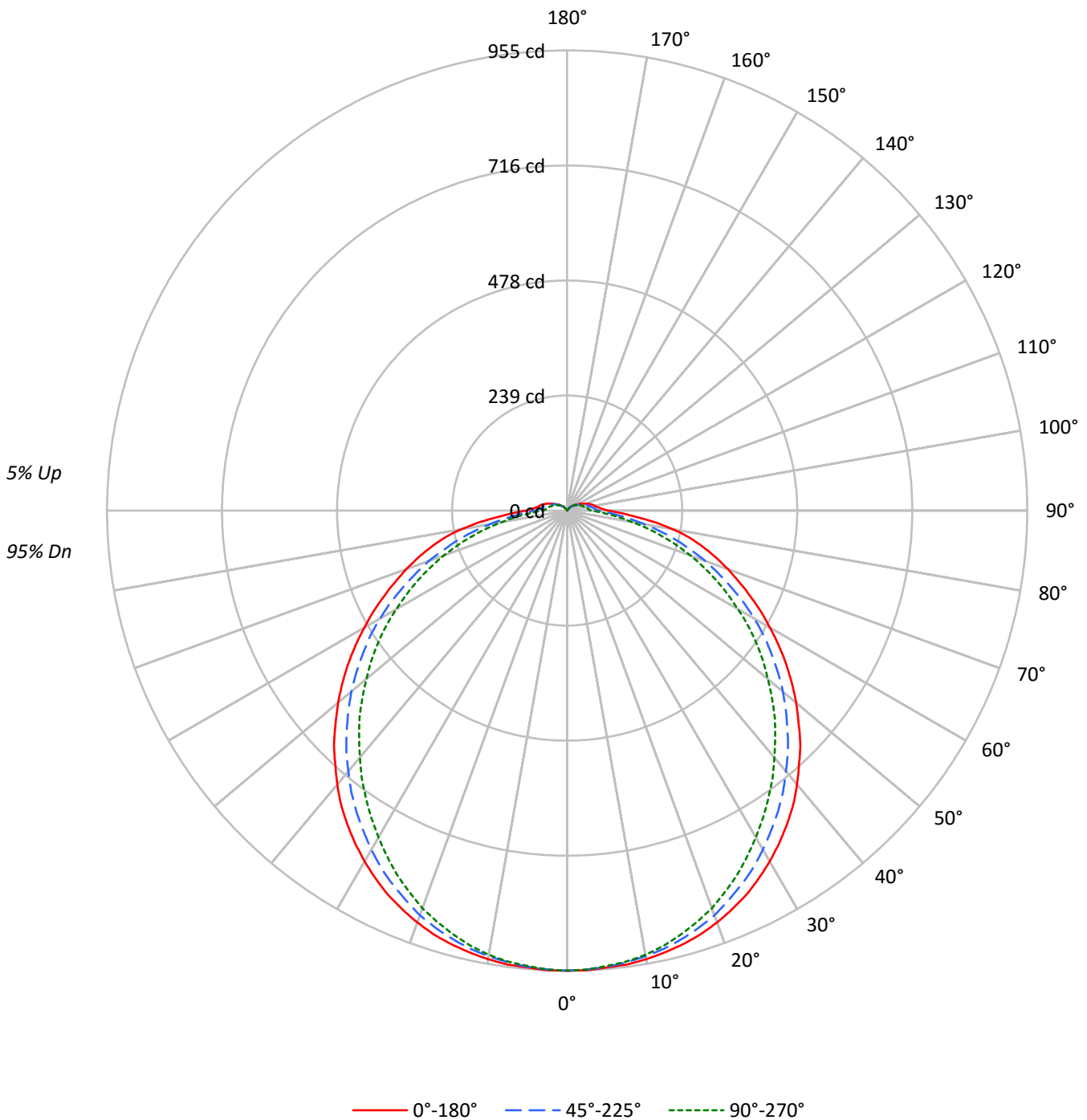
Lumens per Lamp: N/A  
Luminaire Lumens: 3096.7 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 25.6  
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	
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1285	1285	1285
5°	1281	1273	1272
10°	1282	1263	1260
15°	1283	1252	1241
20°	1283	1240	1220
25°	1281	1221	1192
30°	1275	1201	1161
35°	1269	1180	1130
40°	1260	1155	1098
45°	1250	1131	1070
50°	1237	1107	1035
55°	1228	1077	1006
60°	1220	1047	963
65°	1224	1004	920
70°	1252	964	870
75°	1315	910	805
80°	1401	839	723
85°	1470	792	667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.4	2.9
10°-20°	259.8	8.4
20°-30°	394.7	12.7
30°-40°	476.7	15.4
40°-50°	499.0	16.1
50°-60°	463.0	15.0
60°-70°	375.0	12.1
70°-80°	253.1	8.2
80°-90°	122.3	3.9
90°-100°	61.5	2.0
100°-110°	44.7	1.4
110°-120°	29.9	1.0
120°-130°	17.3	0.6
130°-140°	8.7	0.3
140°-150°	0.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	744.9	24.1
0°-40°	1221.6	39.4
0°-60°	2183.5	70.5
0°-90°	2933.9	94.7
90°-120°	136.1	4.4
90°-150°	162.8	5.3
90°-180°	163.0	5.3
0°-180°	3096.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	952	950	950	948	948	91
15°	931	927	920	914	911	263
25°	880	872	856	841	834	405
35°	795	784	763	739	728	498
45°	684	672	647	620	609	527
55°	555	542	517	492	480	496
65°	419	403	375	355	341	416
75°	292	262	233	216	203	308
85°	141	122	103	94	84	133
90°	84	77	66	59	50	48
95°	67	62	56	50	44	53
105°	50	47	42	38	34	53
115°	34	31	31	27	27	34
125°	22	19	20	17	19	19
135°	12	11	11	11	12	10
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°	954.8	954.8	954.8	954.8	954.8
2.5°	954.8	953.2	953.2	953.2	953.2
5°	951.6	950.1	950.1	948.5	948.5
7.5°	950.1	947.0	945.4	943.8	943.8
10°	945.4	942.3	939.1	936.0	936.0
12.5°	939.1	936.0	931.3	925.1	925.1
15°	931.3	926.6	920.4	914.1	911.0
17.5°	922.0	917.3	907.9	898.5	895.4
20°	909.5	903.2	893.8	881.3	878.2
22.5°	895.4	889.1	875.1	862.6	856.3
25°	879.8	872.0	856.3	840.7	834.4
27.5°	861.0	853.2	836.0	817.3	809.4
30°	840.7	831.3	812.6	792.3	782.9
32.5°	818.8	807.9	787.6	765.7	756.3
35°	795.4	784.4	762.6	739.1	728.2
37.5°	770.4	759.4	736.0	711.0	700.1
40°	742.3	731.3	706.3	681.3	668.8
42.5°	712.6	703.2	678.2	651.6	639.1
45°	684.4	671.9	646.9	620.4	609.4
47.5°	651.6	642.2	615.7	589.1	576.6
50°	620.4	609.4	584.4	557.9	543.8
52.5°	587.6	578.2	551.6	525.0	512.5
55°	554.7	542.2	517.2	492.2	479.7
57.5°	520.4	509.4	484.4	461.0	445.4
60°	486.0	475.0	448.5	426.6	409.4
62.5°	453.2	440.7	412.5	389.1	375.0
65°	418.8	403.2	375.0	354.7	340.7
67.5°	386.0	367.2	339.1	320.3	306.3
70°	354.7	332.8	304.7	286.0	271.9
72.5°	323.5	296.9	267.2	250.0	237.5
75°	292.2	262.5	232.8	215.6	203.1
77.5°	261.0	226.6	196.9	182.8	170.3
80°	223.5	190.6	162.5	150.0	137.5
82.5°	181.3	154.7	131.3	118.8	109.4
85°	140.6	121.9	103.1	93.8	84.4
87.5°	109.4	95.3	81.3	73.4	65.6
90°	84.4	76.6	65.6	59.4	50.0
92.5°	73.4	67.2	59.4	53.1	45.3
95°	67.2	62.5	56.3	50.0	43.8
97.5°	60.9	57.8	51.6	46.9	40.6
100°	57.8	53.1	48.4	43.8	39.1
102.5°	54.7	50.0	45.3	40.6	37.5
105°	50.0	46.9	42.2	37.5	34.4
107.5°	46.9	42.2	39.1	34.4	32.8
110°	42.2	39.1	35.9	32.8	31.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	37.5	35.9	32.8	29.7	28.1
115°	34.4	31.3	31.3	26.6	26.6
117.5°	31.3	28.1	28.1	25.0	25.0
120°	26.6	25.0	25.0	21.9	21.9
122.5°	23.4	21.9	21.9	20.3	20.3
125°	21.9	18.8	20.3	17.2	18.8
127.5°	18.8	17.2	17.2	15.6	17.2
130°	15.6	14.1	14.1	14.1	15.6
132.5°	14.1	12.5	12.5	12.5	14.1
135°	12.5	10.9	10.9	10.9	12.5
137.5°	10.9	9.4	7.8	9.4	10.9
140°	9.4	7.8	6.3	7.8	9.4
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)