

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: P384171

Luminaire Tested: **24ID-30-L835-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384171  
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-L835-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

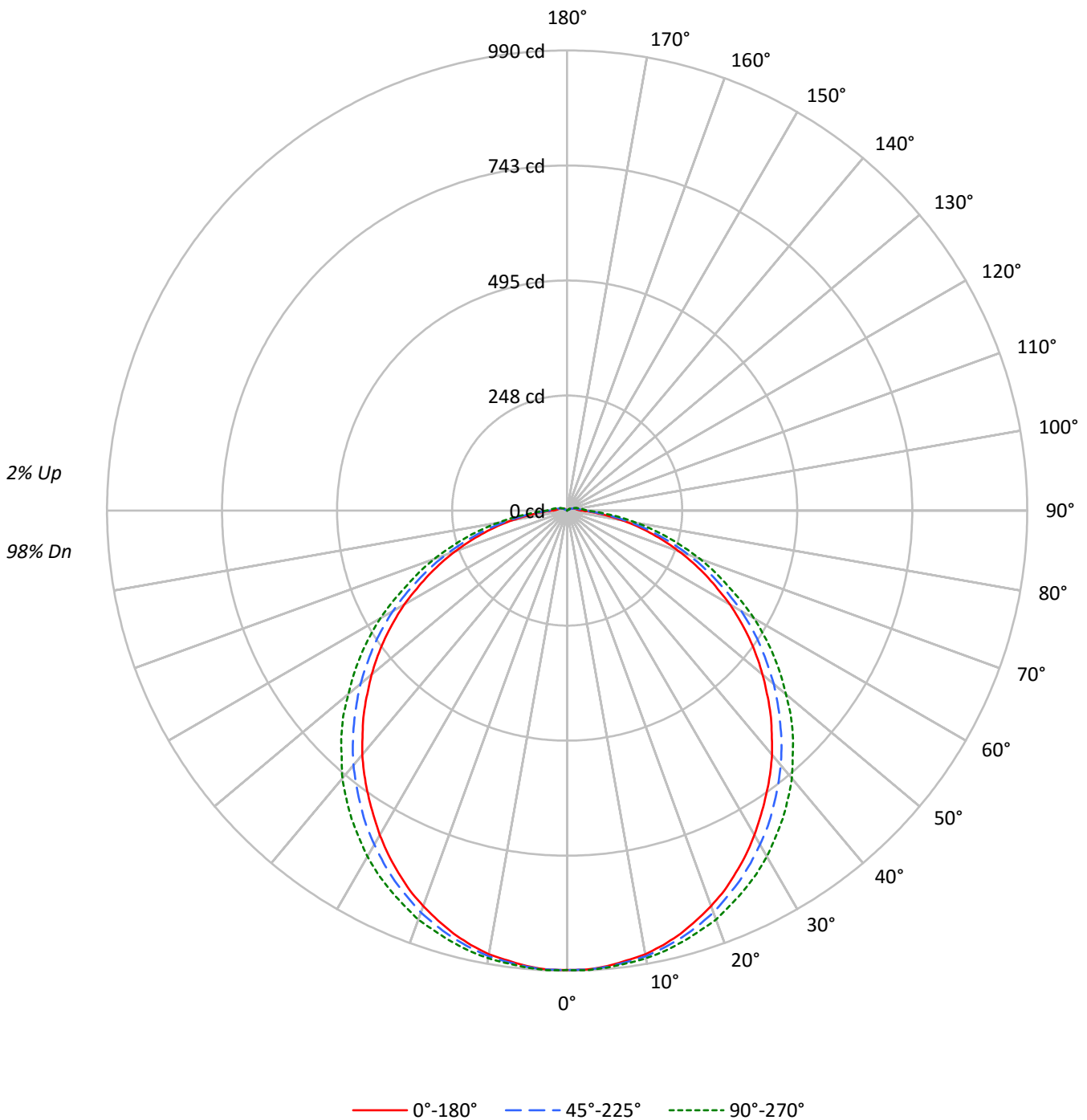
Lumens per Lamp: N/A  
Luminaire Lumens: 2927.3 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 25.8  
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	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°	1330	1330	1330
5°	1326	1326	1328
10°	1319	1320	1326
15°	1305	1310	1323
20°	1286	1297	1321
25°	1263	1278	1312
30°	1237	1257	1304
35°	1209	1234	1291
40°	1184	1211	1277
45°	1154	1182	1255
50°	1122	1154	1225
55°	1089	1120	1199
60°	1052	1083	1166
65°	1004	1027	1110
70°	950	974	1074
75°	888	901	1015
80°	823	818	949
85°	796	761	900



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.6	3.2
10°-20°	268.3	9.2
20°-30°	405.1	13.8
30°-40°	485.4	16.6
40°-50°	501.9	17.1
50°-60°	454.5	15.5
60°-70°	351.7	12.0
70°-80°	216.0	7.4
80°-90°	85.8	2.9
90°-100°	31.3	1.1
100°-110°	19.2	0.7
110°-120°	9.9	0.3
120°-130°	4.2	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°	767.1	26.2
0°-40°	1252.5	42.8
0°-60°	2208.8	75.5
0°-90°	2862.3	97.8
90°-120°	60.5	2.1
90°-150°	65.0	2.2
90°-180°	65.0	2.2
0°-180°	2927.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	984	984	985	985	987	93
15°	942	944	951	957	960	266
25°	859	865	879	893	901	396
35°	746	755	775	796	809	467
45°	619	626	648	675	687	477
55°	478	488	508	530	542	427
65°	330	337	353	371	380	326
75°	184	193	202	215	226	196
85°	64	68	74	82	86	64
90°	30	34	37	42	44	17
95°	22	25	28	31	34	18
105°	16	16	18	19	21	17
115°	10	9	9	10	12	11
125°	6	4	3	4	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°	988.4	988.4	988.4	988.4	988.4
2.5°	988.4	986.9	988.4	988.4	989.9
5°	983.9	983.9	985.4	985.4	986.9
7.5°	976.5	976.5	979.5	981.0	982.5
10°	969.1	969.1	973.6	975.0	978.0
12.5°	957.2	958.7	963.2	967.6	970.6
15°	942.4	943.9	951.3	957.2	960.2
17.5°	924.6	927.5	936.4	945.4	948.3
20°	905.3	909.7	920.1	930.5	936.4
22.5°	884.5	887.5	899.3	912.7	918.6
25°	859.3	865.2	878.6	893.4	900.8
27.5°	834.0	840.0	854.8	872.6	881.5
30°	805.9	811.8	829.6	848.9	859.3
32.5°	776.2	783.6	804.4	823.7	834.0
35°	746.5	755.4	774.7	795.5	808.8
37.5°	716.8	724.2	745.0	767.3	780.6
40°	685.6	693.1	715.3	737.6	752.4
42.5°	651.5	660.4	682.7	706.4	718.3
45°	618.9	626.3	648.5	675.3	687.1
47.5°	583.2	593.6	614.4	639.6	653.0
50°	549.1	558.0	580.3	604.0	614.4
52.5°	513.5	522.4	543.2	566.9	578.8
55°	477.9	488.3	507.6	529.8	541.7
57.5°	440.8	451.2	470.5	489.7	503.1
60°	405.2	415.5	433.3	452.6	464.5
62.5°	365.1	374.0	393.3	414.1	423.0
65°	329.5	336.9	353.2	371.0	379.9
67.5°	292.4	301.3	316.1	332.4	342.8
70°	255.3	265.6	277.5	292.4	304.2
72.5°	219.6	228.5	238.9	253.8	264.2
75°	184.0	192.9	201.8	215.2	225.6
77.5°	152.9	157.3	166.2	178.1	188.5
80°	118.7	124.7	132.1	144.0	151.4
82.5°	89.0	95.0	100.9	109.8	117.2
85°	63.8	68.3	74.2	81.6	86.1
87.5°	43.0	47.5	51.9	57.9	62.3
90°	29.7	34.1	37.1	41.6	44.5
92.5°	25.2	28.2	31.2	34.1	37.1
95°	22.3	25.2	28.2	31.2	34.1
97.5°	20.8	22.3	25.2	28.2	29.7
100°	19.3	20.8	22.3	25.2	26.7
102.5°	17.8	17.8	20.8	22.3	23.7
105°	16.3	16.3	17.8	19.3	20.8
107.5°	14.8	14.8	16.3	16.3	19.3
110°	13.4	11.9	13.4	13.4	16.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.9	10.4	11.9	11.9	13.4
115°	10.4	8.9	8.9	10.4	11.9
117.5°	8.9	7.4	7.4	7.4	10.4
120°	8.9	7.4	5.9	5.9	8.9
122.5°	7.4	5.9	4.5	5.9	7.4
125°	5.9	4.5	3.0	4.5	5.9
127.5°	4.5	4.5	1.5	3.0	4.5
130°	4.5	3.0	1.5	3.0	3.0
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)