

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: P384338

Luminaire Tested: **24ID-30-L830-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384338  
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-L830-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

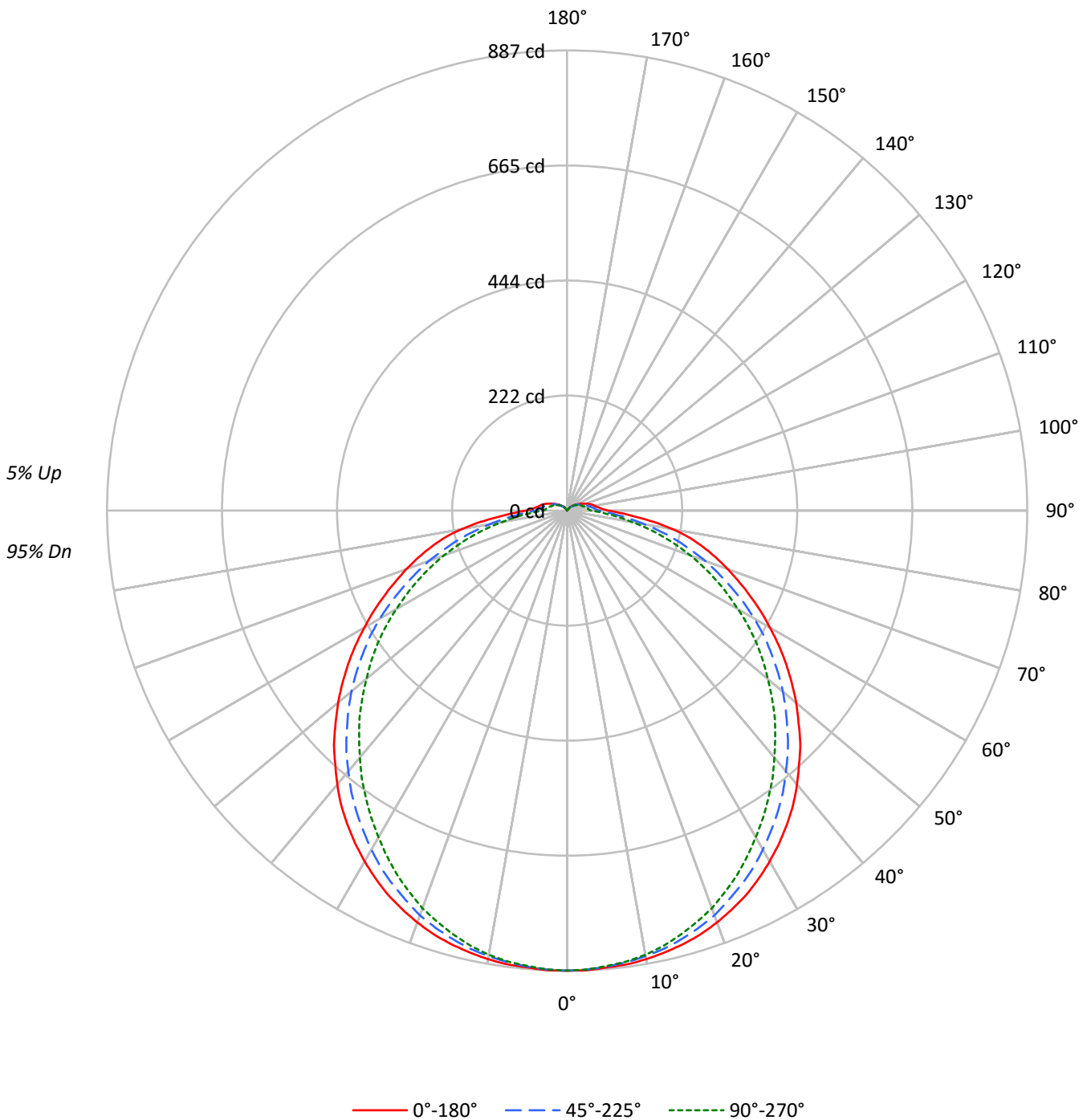
Lumens per Lamp: N/A  
Luminaire Lumens: 2876.1 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 25.8  
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°	1193	1193	1193
5°	1189	1183	1181
10°	1191	1173	1170
15°	1192	1163	1153
20°	1191	1152	1133
25°	1190	1134	1108
30°	1185	1116	1078
35°	1179	1095	1050
40°	1170	1073	1020
45°	1161	1050	994
50°	1149	1028	962
55°	1141	1001	934
60°	1133	972	894
65°	1137	932	855
70°	1163	896	808
75°	1221	845	748
80°	1300	779	672
85°	1366	736	620



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	2.9
10°-20°	241.3	8.4
20°-30°	366.6	12.7
30°-40°	442.8	15.4
40°-50°	463.4	16.1
50°-60°	430.0	15.0
60°-70°	348.3	12.1
70°-80°	235.0	8.2
80°-90°	113.6	3.9
90°-100°	57.1	2.0
100°-110°	41.5	1.4
110°-120°	27.8	1.0
120°-130°	16.1	0.6
130°-140°	8.1	0.3
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	691.8	24.1
0°-40°	1134.6	39.4
0°-60°	2028.0	70.5
0°-90°	2724.9	94.7
90°-120°	126.4	4.4
90°-150°	151.2	5.3
90°-180°	151.0	5.3
0°-180°	2876.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	884	882	882	881	881	84
15°	865	861	855	849	846	244
25°	817	810	795	781	775	377
35°	739	729	708	686	676	462
45°	636	624	601	576	566	490
55°	515	504	480	457	446	461
65°	389	374	348	329	316	386
75°	271	244	216	200	189	286
85°	131	113	96	87	78	123
90°	78	71	61	55	46	45
95°	62	58	52	46	41	49
105°	46	44	39	35	32	50
115°	32	29	29	25	25	32
125°	20	17	19	16	17	18
135°	12	10	10	10	12	9
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°	886.8	886.8	886.8	886.8	886.8
2.5°	886.8	885.3	885.3	885.3	885.3
5°	883.9	882.4	882.4	881.0	881.0
7.5°	882.4	879.5	878.0	876.6	876.6
10°	878.0	875.1	872.2	869.3	869.3
12.5°	872.2	869.3	865.0	859.2	859.2
15°	865.0	860.6	854.8	849.0	846.1
17.5°	856.3	851.9	843.2	834.5	831.6
20°	844.7	838.9	830.2	818.5	815.6
22.5°	831.6	825.8	812.7	801.1	795.3
25°	817.1	809.8	795.3	780.8	775.0
27.5°	799.7	792.4	776.5	759.0	751.8
30°	780.8	772.1	754.7	735.8	727.1
32.5°	760.5	750.3	731.5	711.1	702.4
35°	738.7	728.6	708.2	686.5	676.3
37.5°	715.5	705.3	683.6	660.3	650.2
40°	689.4	679.2	656.0	632.8	621.2
42.5°	661.8	653.1	629.9	605.2	593.6
45°	635.7	624.1	600.8	576.2	566.0
47.5°	605.2	596.5	571.8	547.1	535.5
50°	576.2	566.0	542.8	518.1	505.1
52.5°	545.7	537.0	512.3	487.6	476.0
55°	515.2	503.6	480.4	457.2	445.6
57.5°	483.3	473.1	449.9	428.1	413.6
60°	451.4	441.2	416.5	396.2	380.2
62.5°	420.9	409.3	383.1	361.4	348.3
65°	389.0	374.4	348.3	329.4	316.4
67.5°	358.5	341.1	314.9	297.5	284.5
70°	329.4	309.1	283.0	265.6	252.5
72.5°	300.4	275.8	248.2	232.2	220.6
75°	271.4	243.8	216.2	200.3	188.7
77.5°	242.4	210.4	182.9	169.8	158.2
80°	207.5	177.1	150.9	139.3	127.7
82.5°	168.4	143.7	121.9	110.3	101.6
85°	130.6	113.2	95.8	87.1	78.4
87.5°	101.6	88.5	75.5	68.2	61.0
90°	78.4	71.1	61.0	55.2	46.4
92.5°	68.2	62.4	55.2	49.3	42.1
95°	62.4	58.1	52.2	46.4	40.6
97.5°	56.6	53.7	47.9	43.5	37.7
100°	53.7	49.3	45.0	40.6	36.3
102.5°	50.8	46.4	42.1	37.7	34.8
105°	46.4	43.5	39.2	34.8	31.9
107.5°	43.5	39.2	36.3	31.9	30.5
110°	39.2	36.3	33.4	30.5	29.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	34.8	33.4	30.5	27.6	26.1
115°	31.9	29.0	29.0	24.7	24.7
117.5°	29.0	26.1	26.1	23.2	23.2
120°	24.7	23.2	23.2	20.3	20.3
122.5°	21.8	20.3	20.3	18.9	18.9
125°	20.3	17.4	18.9	16.0	17.4
127.5°	17.4	16.0	16.0	14.5	16.0
130°	14.5	13.1	13.1	13.1	14.5
132.5°	13.1	11.6	11.6	11.6	13.1
135°	11.6	10.2	10.2	10.2	11.6
137.5°	10.2	8.7	7.3	8.7	10.2
140°	8.7	7.3	5.8	7.3	8.7
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)