

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: P384342

Luminaire Tested: **24ID-35-L830-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384342  
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-35-L830-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

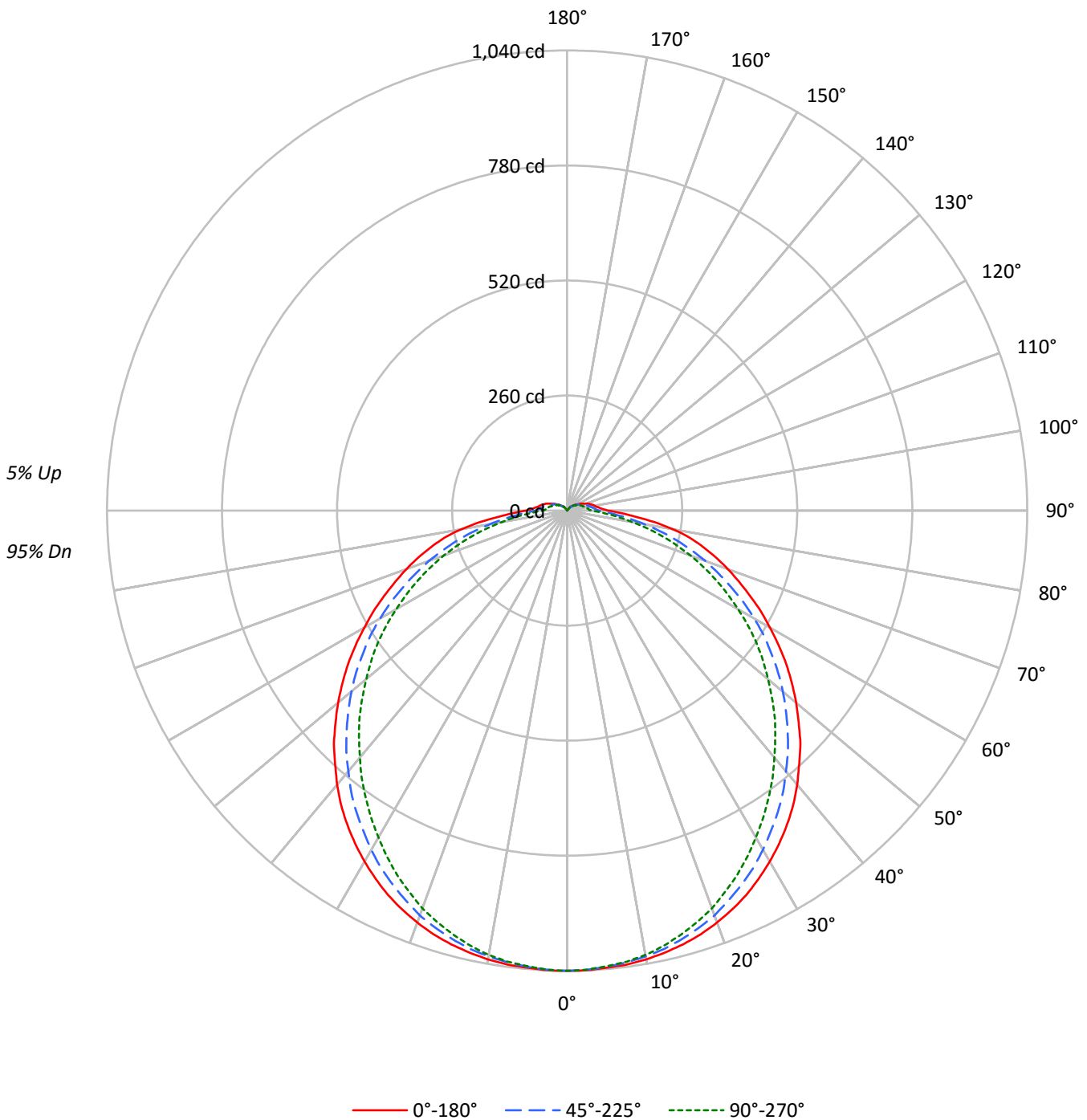
Lumens per Lamp: N/A  
Luminaire Lumens: 3373.4 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 30.4  
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



TEST NUMBER: P384342  
CATALOG NUMBER: 24ID-35-L830-CFD2

### 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°	1399	1399	1399
5°	1395	1387	1386
10°	1397	1376	1373
15°	1398	1364	1352
20°	1397	1351	1330
25°	1396	1330	1299
30°	1389	1309	1264
35°	1383	1285	1231
40°	1372	1258	1196
45°	1362	1232	1166
50°	1348	1206	1128
55°	1338	1173	1096
60°	1329	1140	1049
65°	1333	1093	1002
70°	1364	1051	948
75°	1432	991	878
80°	1525	914	788
85°	1602	862	727



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.4	2.9
10°-20°	283.1	8.4
20°-30°	429.9	12.7
30°-40°	519.3	15.4
40°-50°	543.5	16.1
50°-60°	504.3	15.0
60°-70°	408.5	12.1
70°-80°	275.7	8.2
80°-90°	133.2	3.9
90°-100°	67.0	2.0
100°-110°	48.7	1.4
110°-120°	32.5	1.0
120°-130°	18.8	0.6
130°-140°	9.5	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°	811.4	24.1
0°-40°	1330.7	39.4
0°-60°	2378.6	70.5
0°-90°	3196.0	94.7
90°-120°	148.3	4.4
90°-150°	177.3	5.3
90°-180°	177.0	5.2
0°-180°	3373.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1037	1035	1035	1033	1033	99
15°	1014	1009	1003	996	992	287
25°	958	950	933	916	909	442
35°	866	854	831	805	793	542
45°	746	732	705	676	664	574
55°	604	591	563	536	523	540
65°	456	439	408	386	371	453
75°	318	286	254	235	221	335
85°	153	133	112	102	92	145
90°	92	83	72	65	54	52
95°	73	68	61	54	48	58
105°	54	51	46	41	37	58
115°	37	34	34	29	29	37
125°	24	20	22	19	20	21
135°	14	12	12	12	14	11
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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CATALOG NUMBER: 24ID-35-L830-CFD2

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1040.1	1038.4	1038.4	1038.4	1038.4
5°	1036.7	1035.0	1035.0	1033.3	1033.3
7.5°	1035.0	1031.6	1029.9	1028.2	1028.2
10°	1029.9	1026.5	1023.1	1019.7	1019.7
12.5°	1023.1	1019.7	1014.5	1007.7	1007.7
15°	1014.5	1009.4	1002.6	995.8	992.4
17.5°	1004.3	999.2	989.0	978.8	975.4
20°	990.7	983.9	973.7	960.1	956.7
22.5°	975.4	968.6	953.3	939.6	932.8
25°	958.4	949.9	932.8	915.8	909.0
27.5°	937.9	929.4	910.7	890.3	881.8
30°	915.8	905.6	885.2	863.0	852.8
32.5°	892.0	880.1	857.9	834.1	823.9
35°	866.5	854.5	830.7	805.2	793.3
37.5°	839.2	827.3	801.8	774.5	762.6
40°	808.6	796.7	769.4	742.2	728.6
42.5°	776.2	766.0	738.8	709.8	696.2
45°	745.6	732.0	704.7	675.8	663.9
47.5°	709.8	699.6	670.7	641.8	628.1
50°	675.8	663.9	636.6	607.7	592.4
52.5°	640.1	629.8	600.9	572.0	558.3
55°	604.3	590.7	563.4	536.2	522.6
57.5°	566.9	554.9	527.7	502.2	485.1
60°	529.4	517.5	488.5	464.7	446.0
62.5°	493.7	480.0	449.4	423.9	408.5
65°	456.2	439.2	408.5	386.4	371.1
67.5°	420.5	400.0	369.4	349.0	333.6
70°	386.4	362.6	331.9	311.5	296.2
72.5°	352.4	323.4	291.1	272.4	258.7
75°	318.3	286.0	253.6	234.9	221.3
77.5°	284.3	246.8	214.5	199.2	185.5
80°	243.4	207.7	177.0	163.4	149.8
82.5°	197.5	168.5	143.0	129.4	119.2
85°	153.2	132.8	112.3	102.1	91.9
87.5°	119.2	103.8	88.5	80.0	71.5
90°	91.9	83.4	71.5	64.7	54.5
92.5°	80.0	73.2	64.7	57.9	49.4
95°	73.2	68.1	61.3	54.5	47.7
97.5°	66.4	63.0	56.2	51.1	44.3
100°	63.0	57.9	52.8	47.7	42.6
102.5°	59.6	54.5	49.4	44.3	40.9
105°	54.5	51.1	46.0	40.9	37.4
107.5°	51.1	46.0	42.6	37.4	35.7
110°	46.0	42.6	39.2	35.7	34.0



TEST NUMBER: P384342

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	40.9	39.2	35.7	32.3	30.6
115°	37.4	34.0	34.0	28.9	28.9
117.5°	34.0	30.6	30.6	27.2	27.2
120°	28.9	27.2	27.2	23.8	23.8
122.5°	25.5	23.8	23.8	22.1	22.1
125°	23.8	20.4	22.1	18.7	20.4
127.5°	20.4	18.7	18.7	17.0	18.7
130°	17.0	15.3	15.3	15.3	17.0
132.5°	15.3	13.6	13.6	13.6	15.3
135°	13.6	11.9	11.9	11.9	13.6
137.5°	11.9	10.2	8.5	10.2	11.9
140°	10.2	8.5	6.8	8.5	10.2
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)