

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: P384678

Luminaire Tested: **24ID-35-L830-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384678  
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: 24ID-35-L830-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

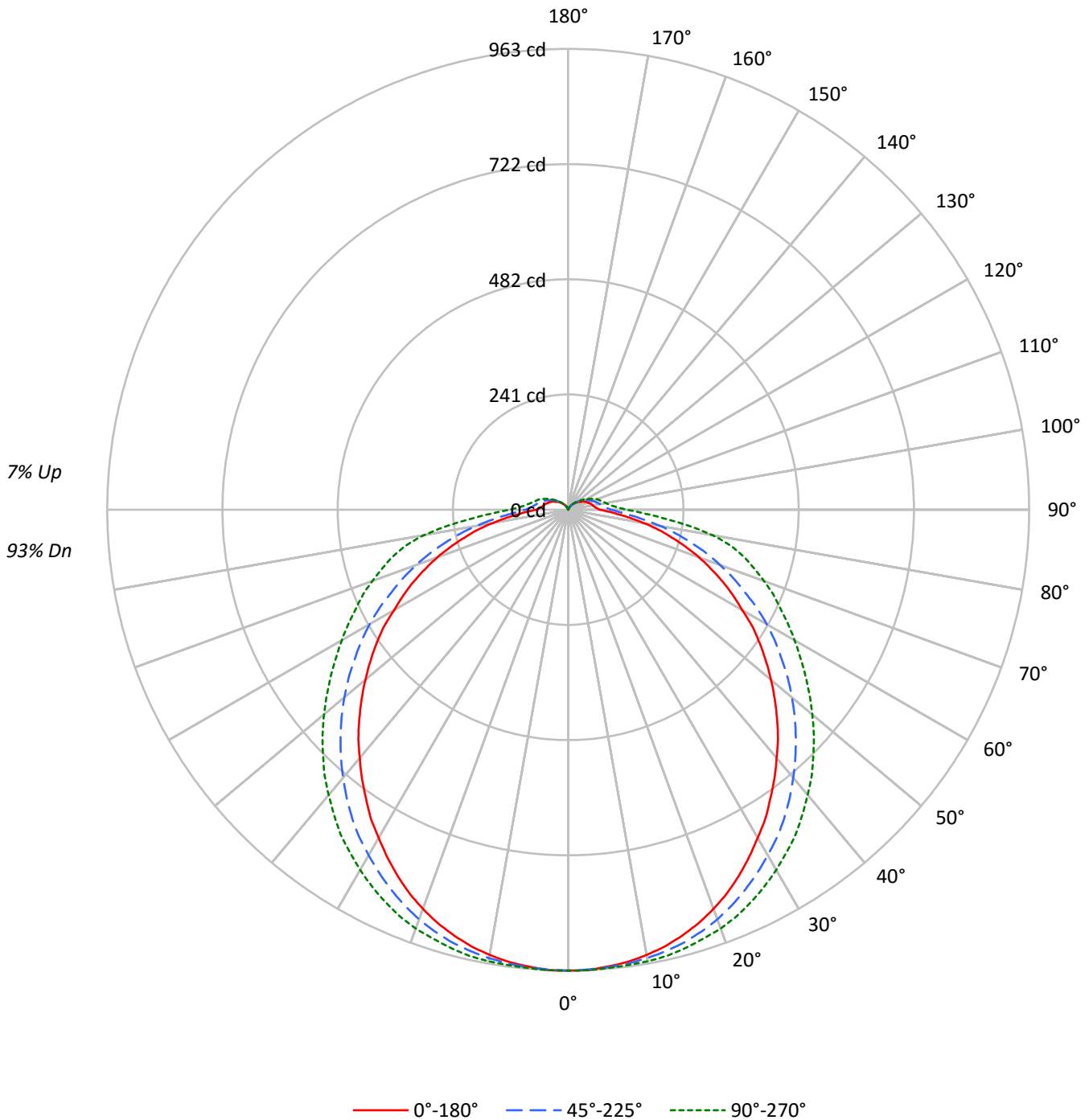
Lumens per Lamp: N/A  
Luminaire Lumens: 3370.6 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 30.4  
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°	1296	1296	1296
5°	1287	1281	1285
10°	1277	1270	1281
15°	1262	1259	1278
20°	1243	1244	1275
25°	1217	1224	1269
30°	1187	1203	1259
35°	1159	1182	1252
40°	1131	1156	1237
45°	1105	1130	1225
50°	1077	1103	1213
55°	1054	1074	1205
60°	1020	1048	1208
65°	1001	1008	1228
70°	976	974	1275
75°	943	924	1347
80°	914	862	1387
85°	923	794	1250



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.3	2.7
10°-20°	263.9	7.8
20°-30°	403.2	12.0
30°-40°	490.8	14.6
40°-50°	518.8	15.4
50°-60°	489.7	14.5
60°-70°	412.0	12.2
70°-80°	297.0	8.8
80°-90°	156.6	4.6
90°-100°	83.8	2.5
100°-110°	63.7	1.9
110°-120°	46.2	1.4
120°-130°	29.0	0.9
130°-140°	15.7	0.5
140°-150°	6.8	0.2
150°-160°	1.8	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	758.5	22.5
0°-40°	1249.3	37.1
0°-60°	2257.8	67.0
0°-90°	3123.5	92.7
90°-120°	193.7	5.7
90°-150°	245.2	7.3
90°-180°	247.0	7.3
0°-180°	3370.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	958	958	960	960	962	91
15°	921	924	936	943	948	260
25°	844	854	876	896	904	389
35°	736	753	787	817	829	461
45°	617	635	672	709	724	476
55°	489	511	545	585	605	437
65°	356	376	407	457	489	352
75°	224	242	266	318	380	237
85°	102	116	129	161	197	96
90°	66	77	89	106	121	38
95°	57	66	76	86	92	46
105°	49	54	60	67	71	51
115°	39	42	47	50	54	39
125°	29	29	34	34	35	26
135°	20	18	20	20	22	15
145°	12	10	10	10	12	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°	963.2	963.2	963.2	963.2	963.2
2.5°	963.2	961.5	961.5	961.5	963.2
5°	958.2	958.2	959.8	959.8	961.5
7.5°	953.1	953.1	956.5	958.2	959.8
10°	944.7	946.4	951.4	954.8	958.2
12.5°	934.6	936.3	944.7	951.4	954.8
15°	921.2	924.5	936.3	943.0	948.1
17.5°	906.0	911.1	924.5	934.6	939.7
20°	887.6	894.3	911.1	924.5	931.3
22.5°	867.4	874.1	894.3	911.1	919.5
25°	843.8	853.9	875.8	896.0	904.4
27.5°	818.6	830.4	855.6	879.1	887.6
30°	791.7	805.2	833.8	859.0	869.1
32.5°	766.5	780.0	811.9	838.8	848.9
35°	736.3	753.1	786.7	817.0	828.7
37.5°	707.7	724.5	759.8	791.7	803.5
40°	677.4	694.2	731.2	766.5	778.3
42.5°	648.9	665.7	702.6	739.6	753.1
45°	616.9	635.4	672.4	709.4	724.5
47.5°	585.0	603.5	642.1	680.8	695.9
50°	553.0	573.2	610.2	648.9	665.7
52.5°	521.1	541.3	578.3	618.6	635.4
55°	489.2	511.0	544.6	585.0	605.2
57.5°	457.2	479.1	512.7	554.7	574.9
60°	420.2	445.5	479.1	522.8	546.3
62.5°	388.3	410.2	443.8	489.2	517.7
65°	356.4	376.5	406.8	457.2	489.2
67.5°	322.7	344.6	373.2	420.2	463.9
70°	290.8	309.3	337.9	386.6	435.4
72.5°	257.2	275.7	302.6	353.0	406.8
75°	223.6	242.1	265.6	317.7	379.9
77.5°	193.3	208.4	230.3	280.7	348.0
80°	159.7	174.8	195.0	240.4	305.9
82.5°	129.4	142.9	159.7	200.0	252.1
85°	102.5	116.0	129.4	161.4	196.7
87.5°	82.4	92.5	105.9	129.4	153.0
90°	65.6	77.3	89.1	105.9	121.0
92.5°	60.5	70.6	80.7	94.1	104.2
95°	57.2	65.6	75.6	85.7	92.5
97.5°	53.8	62.2	70.6	80.7	85.7
100°	52.1	58.8	67.2	75.6	79.0
102.5°	50.4	55.5	63.9	70.6	75.6
105°	48.7	53.8	60.5	67.2	70.6
107.5°	45.4	50.4	57.2	63.9	67.2
110°	43.7	47.1	53.8	58.8	63.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	42.0	45.4	50.4	55.5	58.8
115°	38.7	42.0	47.1	50.4	53.8
117.5°	37.0	38.7	43.7	45.4	48.7
120°	33.6	35.3	40.3	42.0	43.7
122.5°	30.3	31.9	37.0	37.0	40.3
125°	28.6	28.6	33.6	33.6	35.3
127.5°	26.9	26.9	30.3	30.3	31.9
130°	23.5	23.5	26.9	26.9	26.9
132.5°	21.9	20.2	23.5	23.5	25.2
135°	20.2	18.5	20.2	20.2	21.9
137.5°	16.8	16.8	18.5	16.8	18.5
140°	15.1	13.4	15.1	15.1	16.8
142.5°	13.4	11.8	13.4	11.8	13.4
145°	11.8	10.1	10.1	10.1	11.8
147.5°	10.1	8.4	8.4	8.4	10.1
150°	8.4	6.7	6.7	6.7	8.4
152.5°	6.7	5.0	3.4	5.0	6.7
155°	5.0	5.0	1.7	3.4	5.0
157.5°	3.4	3.4	0.0	1.7	3.4
160°	1.7	1.7	0.0	1.7	1.7
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

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