

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: P384680

Luminaire Tested: **24ID-35-L840-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384680  
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-L840-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

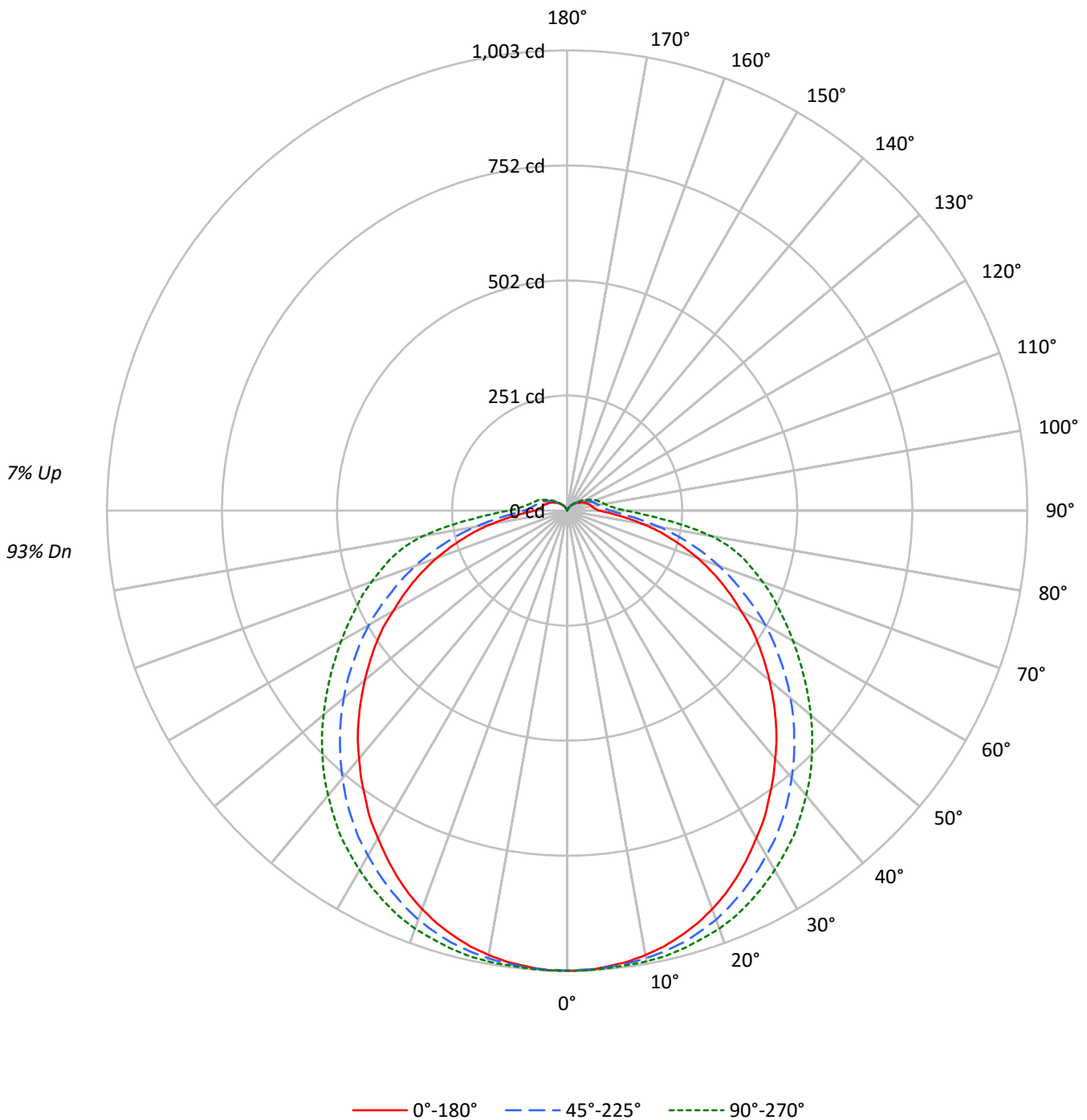
Lumens per Lamp: N/A  
Luminaire Lumens: 3509.7 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 30.2  
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°	1349	1349	1349
5°	1340	1334	1338
10°	1329	1323	1334
15°	1314	1311	1331
20°	1294	1296	1328
25°	1267	1275	1321
30°	1236	1253	1311
35°	1206	1231	1303
40°	1177	1203	1288
45°	1150	1176	1276
50°	1122	1149	1263
55°	1097	1119	1254
60°	1063	1092	1258
65°	1042	1050	1279
70°	1017	1014	1327
75°	981	962	1402
80°	951	898	1445
85°	962	827	1302



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.1	2.7
10°-20°	274.8	7.8
20°-30°	419.9	12.0
30°-40°	511.1	14.6
40°-50°	540.2	15.4
50°-60°	509.9	14.5
60°-70°	429.0	12.2
70°-80°	309.3	8.8
80°-90°	163.1	4.6
90°-100°	87.3	2.5
100°-110°	66.3	1.9
110°-120°	48.1	1.4
120°-130°	30.2	0.9
130°-140°	16.3	0.5
140°-150°	7.1	0.2
150°-160°	1.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	789.8	22.5
0°-40°	1300.8	37.1
0°-60°	2350.9	67.0
0°-90°	3252.3	92.7
90°-120°	201.7	5.7
90°-150°	255.4	7.3
90°-180°	257.0	7.3
0°-180°	3509.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	998	998	999	999	1001	95
15°	959	963	975	982	987	271
25°	879	889	912	933	942	405
35°	767	784	819	851	863	480
45°	642	662	700	739	754	496
55°	509	532	567	609	630	455
65°	371	392	424	476	509	367
75°	233	252	276	331	396	247
85°	107	121	135	168	205	100
90°	68	80	93	110	126	39
95°	60	68	79	89	96	47
105°	51	56	63	70	74	53
115°	40	44	49	52	56	40
125°	30	30	35	35	37	27
135°	21	19	21	21	23	16
145°	12	10	10	10	12	8
155°	5	5	2	4	5	3
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°	1002.9	1002.9	1002.9	1002.9	1002.9
2.5°	1002.9	1001.2	1001.2	1001.2	1002.9
5°	997.7	997.7	999.4	999.4	1001.2
7.5°	992.4	992.4	995.9	997.7	999.4
10°	983.7	985.4	990.7	994.2	997.7
12.5°	973.2	974.9	983.7	990.7	994.2
15°	959.2	962.7	974.9	981.9	987.2
17.5°	943.4	948.7	962.7	973.2	978.4
20°	924.2	931.2	948.7	962.7	969.7
22.5°	903.2	910.2	931.2	948.7	957.4
25°	878.6	889.2	911.9	932.9	941.7
27.5°	852.4	864.6	890.9	915.4	924.2
30°	824.4	838.4	868.1	894.4	904.9
32.5°	798.1	812.1	845.4	873.4	883.9
35°	766.6	784.1	819.1	850.6	862.9
37.5°	736.9	754.4	791.1	824.4	836.6
40°	705.4	722.9	761.4	798.1	810.4
42.5°	675.6	693.1	731.6	770.1	784.1
45°	642.4	661.6	700.1	738.6	754.4
47.5°	609.1	628.4	668.6	708.9	724.6
50°	575.8	596.9	635.4	675.6	693.1
52.5°	542.6	563.6	602.1	644.1	661.6
55°	509.3	532.1	567.1	609.1	630.1
57.5°	476.1	498.8	533.8	577.6	598.6
60°	437.6	463.8	498.8	544.3	568.8
62.5°	404.3	427.1	462.1	509.3	539.1
65°	371.1	392.1	423.6	476.1	509.3
67.5°	336.1	358.8	388.6	437.6	483.1
70°	302.8	322.1	351.8	402.6	453.3
72.5°	267.8	287.0	315.1	367.6	423.6
75°	232.8	252.0	276.5	330.8	395.6
77.5°	201.3	217.0	239.8	292.3	362.3
80°	166.3	182.0	203.0	250.3	318.6
82.5°	134.8	148.8	166.3	208.3	262.5
85°	106.8	120.8	134.8	168.0	204.8
87.5°	85.8	96.3	110.3	134.8	159.3
90°	68.3	80.5	92.8	110.3	126.0
92.5°	63.0	73.5	84.0	98.0	108.5
95°	59.5	68.3	78.8	89.3	96.3
97.5°	56.0	64.8	73.5	84.0	89.3
100°	54.3	61.3	70.0	78.8	82.3
102.5°	52.5	57.8	66.5	73.5	78.8
105°	50.8	56.0	63.0	70.0	73.5
107.5°	47.3	52.5	59.5	66.5	70.0
110°	45.5	49.0	56.0	61.3	66.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	43.8	47.3	52.5	57.8	61.3
115°	40.3	43.8	49.0	52.5	56.0
117.5°	38.5	40.3	45.5	47.3	50.8
120°	35.0	36.8	42.0	43.8	45.5
122.5°	31.5	33.3	38.5	38.5	42.0
125°	29.8	29.8	35.0	35.0	36.8
127.5°	28.0	28.0	31.5	31.5	33.3
130°	24.5	24.5	28.0	28.0	28.0
132.5°	22.8	21.0	24.5	24.5	26.3
135°	21.0	19.3	21.0	21.0	22.8
137.5°	17.5	17.5	19.3	17.5	19.3
140°	15.8	14.0	15.8	15.8	17.5
142.5°	14.0	12.3	14.0	12.3	14.0
145°	12.3	10.5	10.5	10.5	12.3
147.5°	10.5	8.8	8.8	8.8	10.5
150°	8.8	7.0	7.0	7.0	8.8
152.5°	7.0	5.3	3.5	5.3	7.0
155°	5.3	5.3	1.8	3.5	5.3
157.5°	3.5	3.5	0.0	1.8	3.5
160°	1.8	1.8	0.0	1.8	1.8
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)