

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: P383837

Luminaire Tested: **24ID-30-L850-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-30-L850-CFR1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

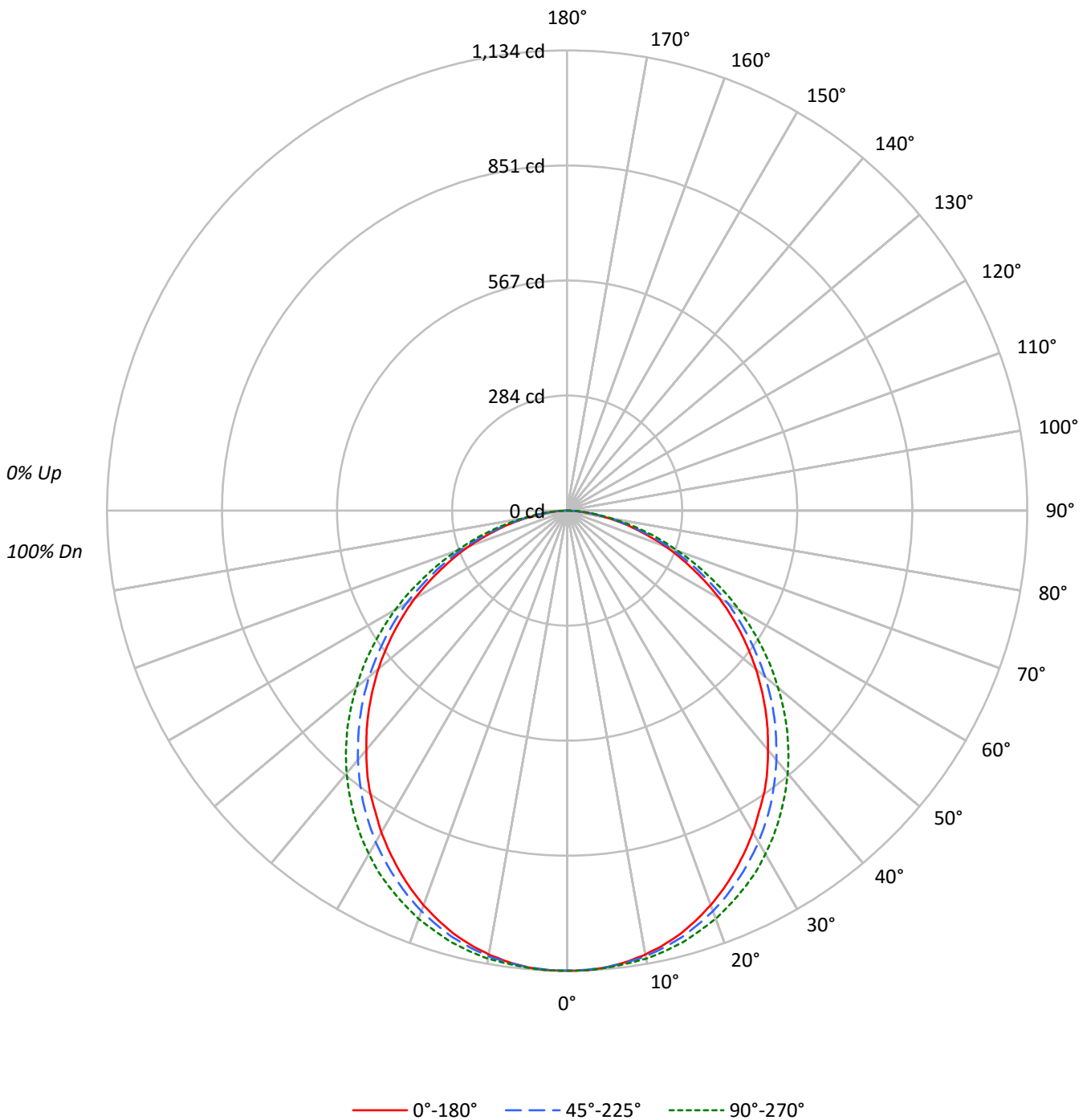
Lumens per Lamp: N/A  
Luminaire Lumens: 3079.5 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.6  
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



TEST NUMBER: P383837  
CATALOG NUMBER: 24ID-30-L850-CFR1

### Luminous Intensity Polar Plot





TEST NUMBER: P383837

CATALOG NUMBER: 24ID-30-L850-CFR1

**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	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1526	1526	1526
5°	1525	1525	1527
10°	1517	1524	1532
15°	1504	1517	1534
20°	1482	1504	1533
25°	1453	1486	1527
30°	1422	1466	1519
35°	1392	1440	1504
40°	1352	1409	1486
45°	1315	1374	1459
50°	1271	1333	1420
55°	1221	1283	1373
60°	1167	1230	1317
65°	1090	1154	1233
70°	1011	1066	1140
75°	902	950	1031
80°	756	792	864
85°	574	574	645



TEST NUMBER: P383837

CATALOG NUMBER: 24ID-30-L850-CFR1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.3	3.5
10°-20°	307.1	10.0
20°-30°	461.7	15.0
30°-40°	549.3	17.8
40°-50°	558.9	18.1
50°-60°	491.9	16.0
60°-70°	360.8	11.7
70°-80°	195.8	6.4
80°-90°	46.7	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	876.1	28.4
0°-40°	1425.4	46.3
0°-60°	2476.1	80.4
0°-90°	3079.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3079.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1129	1128	1129	1129	1131	107
15°	1080	1081	1089	1095	1101	304
25°	979	985	1001	1018	1029	451
35°	847	854	877	903	916	529
45°	691	697	722	753	767	533
55°	520	528	547	573	586	465
65°	342	348	362	378	387	340
75°	174	177	183	192	198	184
85°	37	37	37	40	42	45
90°	0	0	0	0	0	



TEST NUMBER: P383837

CATALOG NUMBER: 24ID-30-L850-CFR1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1133.9	1133.9	1133.9	1133.9	1133.9
2.5°	1133.9	1132.3	1132.3	1132.3	1133.9
5°	1129.3	1127.7	1129.3	1129.3	1130.8
7.5°	1121.5	1120.0	1123.1	1124.6	1126.2
10°	1110.7	1110.7	1115.3	1118.4	1121.5
12.5°	1096.7	1098.3	1102.9	1107.6	1112.2
15°	1079.7	1081.2	1089.0	1095.2	1101.4
17.5°	1058.0	1061.1	1070.4	1079.7	1085.9
20°	1034.8	1039.4	1050.2	1062.6	1070.4
22.5°	1008.4	1014.6	1027.0	1042.5	1050.2
25°	979.0	985.2	1000.7	1017.7	1028.6
27.5°	948.0	955.8	972.8	992.9	1005.3
30°	915.5	923.2	943.4	965.1	977.4
32.5°	879.9	889.1	910.8	935.6	948.0
35°	847.3	853.5	876.8	903.1	915.5
37.5°	810.1	817.9	839.6	867.5	881.4
40°	769.9	777.6	802.4	830.3	845.8
42.5°	731.1	737.3	762.1	793.1	807.0
45°	690.9	697.1	721.9	752.8	766.8
47.5°	649.0	656.8	680.0	709.5	723.4
50°	607.2	613.4	636.7	664.5	678.5
52.5°	563.9	570.0	591.7	619.6	633.6
55°	520.5	528.2	546.8	573.1	585.5
57.5°	477.1	484.8	501.9	526.7	537.5
60°	433.7	439.9	457.0	478.7	489.5
62.5°	387.3	391.9	408.9	430.6	439.9
65°	342.3	348.5	362.5	378.0	387.3
67.5°	300.5	303.6	316.0	333.0	339.2
70°	257.1	260.2	271.1	285.0	289.7
72.5°	213.8	218.4	226.2	238.6	244.7
75°	173.5	176.6	182.8	192.1	198.3
77.5°	134.8	136.3	141.0	148.7	153.4
80°	97.6	99.1	102.2	108.4	111.5
82.5°	65.1	66.6	68.2	71.3	74.4
85°	37.2	37.2	37.2	40.3	41.8
87.5°	13.9	12.4	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)