

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: P385181

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

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-30-L850-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

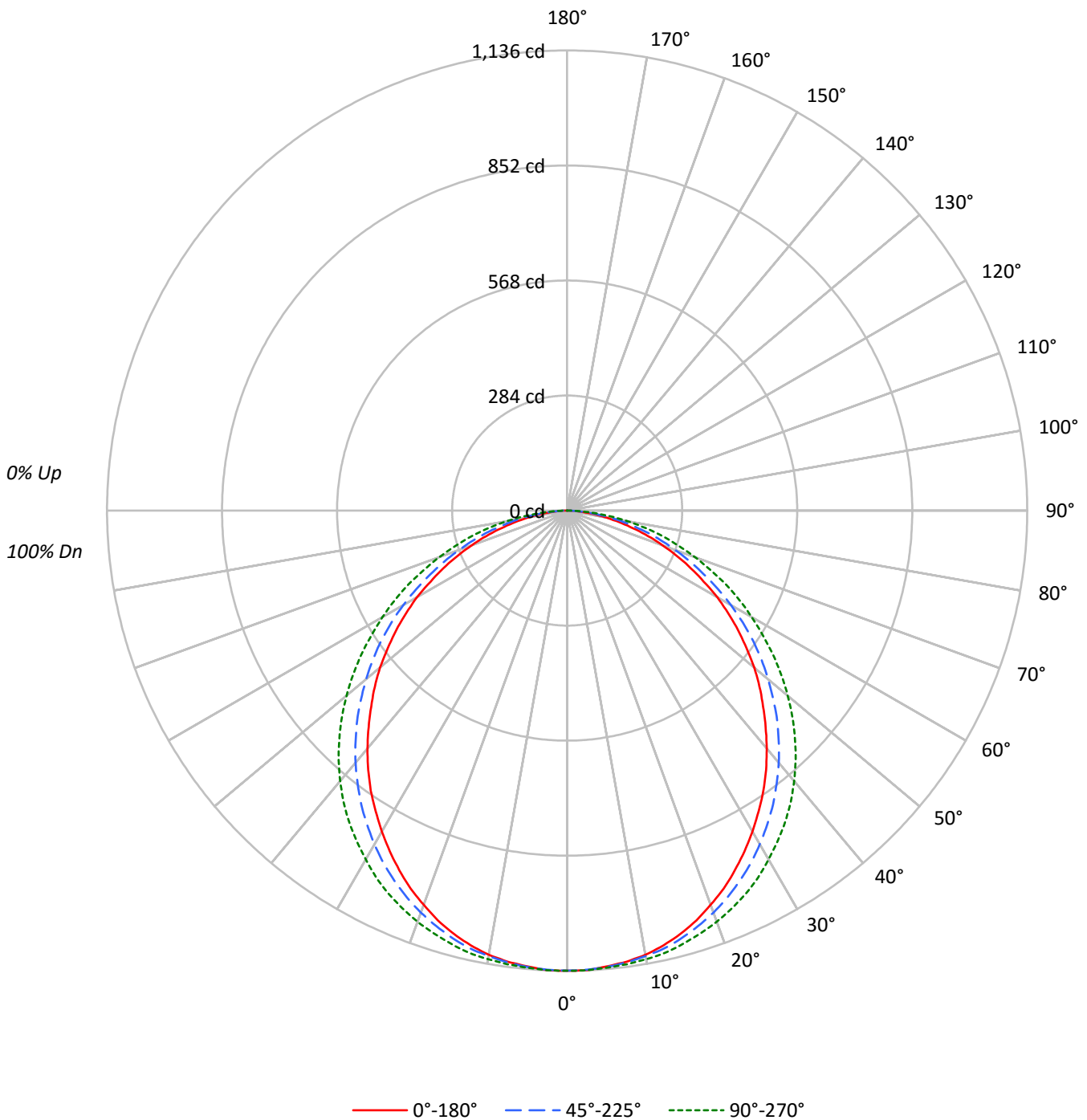
Lumens per Lamp: N/A  
Luminaire Lumens: 3153.8 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.6  
Input Voltage (V): NR  
Input Current (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	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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°
0°	1528	1528	1528
5°	1526	1528	1530
10°	1521	1526	1537
15°	1507	1522	1542
20°	1483	1512	1547
25°	1455	1497	1549
30°	1421	1478	1545
35°	1388	1455	1542
40°	1347	1428	1531
45°	1302	1396	1513
50°	1262	1355	1488
55°	1209	1314	1455
60°	1151	1259	1417
65°	1074	1185	1378
70°	989	1114	1321
75°	876	1034	1265
80°	740	924	1171
85°	540	712	934



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	3.4
10°-20°	308.5	9.8
20°-30°	465.2	14.8
30°-40°	555.4	17.6
40°-50°	567.7	18.0
50°-60°	503.4	16.0
60°-70°	375.2	11.9
70°-80°	214.4	6.8
80°-90°	56.5	1.8
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°	881.2	27.9
0°-40°	1436.6	45.6
0°-60°	2507.7	79.5
0°-90°	3153.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3153.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1130	1130	1131	1131	1133	107
15°	1082	1085	1093	1102	1107	305
25°	980	988	1009	1031	1044	451
35°	845	856	886	921	939	528
45°	684	698	733	773	795	529
55°	515	525	560	600	620	461
65°	337	345	372	410	433	334
75°	169	177	199	229	243	180
85°	35	37	46	57	60	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1135.9	1135.9	1135.9	1135.9	1135.9
2.5°	1135.9	1134.3	1134.3	1134.3	1135.9
5°	1129.5	1129.5	1131.1	1131.1	1132.7
7.5°	1123.2	1123.2	1124.8	1126.3	1129.5
10°	1113.6	1113.6	1116.8	1121.6	1124.8
12.5°	1099.3	1100.9	1107.3	1113.6	1118.4
15°	1081.8	1085.0	1092.9	1102.5	1107.3
17.5°	1061.1	1064.3	1075.4	1088.2	1094.5
20°	1035.7	1042.0	1056.3	1072.3	1080.2
22.5°	1010.2	1016.6	1034.1	1053.2	1062.7
25°	980.0	987.9	1008.6	1030.9	1043.6
27.5°	948.2	957.7	981.6	1007.0	1021.3
30°	914.8	925.9	951.3	980.0	994.3
32.5°	879.8	890.9	919.5	951.3	967.3
35°	844.8	855.9	886.1	921.1	938.6
37.5°	806.6	817.7	849.5	887.7	906.8
40°	766.8	779.5	812.9	851.1	871.8
42.5°	725.4	739.8	773.2	814.5	835.2
45°	684.1	698.4	733.4	773.2	795.4
47.5°	644.3	655.4	690.4	731.8	754.1
50°	602.9	612.5	647.5	688.9	711.1
52.5°	558.4	571.1	604.5	645.9	666.6
55°	515.4	525.0	560.0	599.8	620.4
57.5°	470.9	480.4	513.9	553.6	572.7
60°	427.9	437.5	467.7	507.5	526.6
62.5°	380.2	389.8	420.0	461.4	480.4
65°	337.3	345.2	372.3	410.4	432.7
67.5°	294.3	302.3	327.7	364.3	381.8
70°	251.4	257.7	283.2	316.6	335.7
72.5°	210.0	216.4	241.8	272.0	287.9
75°	168.6	176.6	198.9	229.1	243.4
77.5°	130.5	138.4	157.5	184.5	197.3
80°	95.5	101.8	119.3	140.0	151.1
82.5°	63.6	68.4	81.1	98.6	106.6
85°	35.0	36.6	46.1	57.3	60.5
87.5°	14.3	14.3	17.5	19.1	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)