

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: P385397

Luminaire Tested: **24ID-90-L850-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-90-L850-CNV  
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

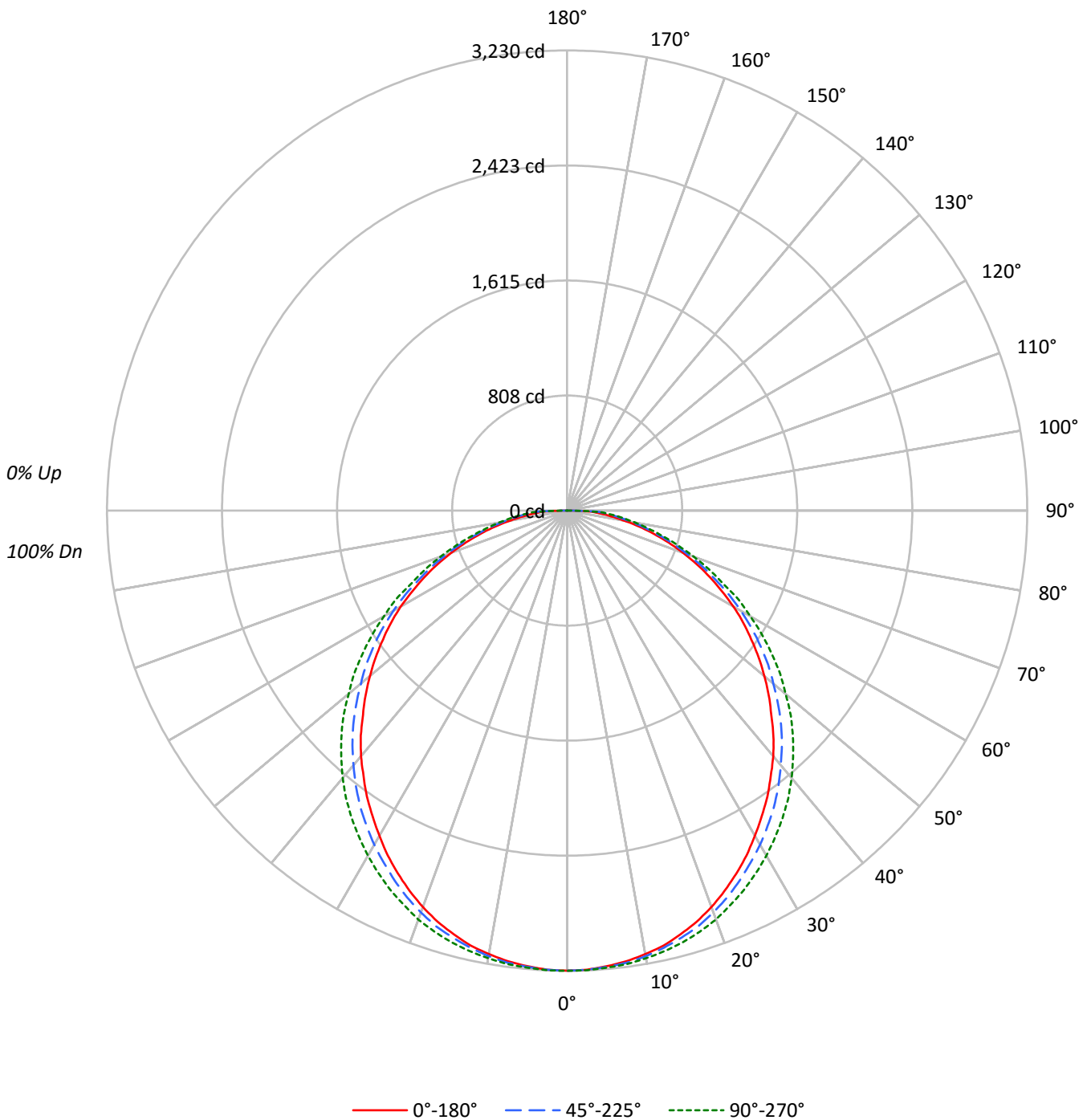
Lumens per Lamp: N/A  
Luminaire Lumens: 9368.0 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 87.5  
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	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	61		68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28		40	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

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

	0°	45°	90°
0°	4346	4346	4346
5°	4320	4309	4318
10°	4288	4273	4296
15°	4241	4223	4275
20°	4178	4163	4245
25°	4093	4084	4198
30°	3999	4004	4145
35°	3911	3919	4090
40°	3820	3816	4023
45°	3702	3713	3936
50°	3604	3580	3812
55°	3495	3450	3676
60°	3387	3286	3494
65°	3232	3077	3250
70°	3044	2853	3025
75°	2827	2609	2762
80°	2534	2363	2538
85°	2395	2245	2427



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.6	3.3
10°-20°	875.8	9.3
20°-30°	1321.7	14.1
30°-40°	1586.4	16.9
40°-50°	1641.7	17.5
50°-60°	1487.3	15.9
60°-70°	1145.9	12.2
70°-80°	709.1	7.6
80°-90°	294.5	3.1
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°	2503.1	26.7
0°-40°	4089.5	43.7
0°-60°	7218.5	77.1
0°-90°	9368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3230	3230	3230	3230	3230	
5°	3210	3210	3215	3215	3220	305
15°	3079	3084	3103	3123	3137	868
25°	2811	2821	2864	2913	2938	1295
35°	2450	2470	2533	2602	2636	1532
45°	2027	2056	2124	2202	2241	1567
55°	1578	1603	1656	1729	1754	1413
65°	1106	1116	1150	1198	1203	1093
75°	628	643	667	697	697	666
85°	229	253	292	312	307	247
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3229.9	3229.9	3229.9	3229.9	3229.9
2.5°	3225.0	3225.0	3225.0	3225.0	3229.9
5°	3210.4	3210.4	3215.3	3215.3	3220.2
7.5°	3190.9	3190.9	3200.7	3200.7	3210.4
10°	3161.7	3166.6	3176.3	3181.2	3190.9
12.5°	3127.6	3127.6	3142.2	3156.8	3166.6
15°	3078.9	3083.7	3103.2	3122.7	3137.3
17.5°	3025.3	3030.2	3059.4	3078.9	3098.4
20°	2962.0	2966.8	3000.9	3030.2	3054.5
22.5°	2888.9	2898.6	2937.6	2976.6	2996.1
25°	2810.9	2820.7	2864.5	2913.2	2937.6
27.5°	2728.1	2742.7	2786.6	2840.2	2869.4
30°	2635.6	2655.0	2708.6	2767.1	2796.3
32.5°	2543.0	2562.5	2620.9	2689.1	2718.4
35°	2450.4	2469.9	2533.3	2601.5	2635.6
37.5°	2348.1	2367.6	2435.8	2508.9	2547.9
40°	2250.7	2270.2	2333.5	2416.3	2450.4
42.5°	2143.5	2163.0	2231.2	2309.2	2348.1
45°	2026.6	2055.8	2124.0	2202.0	2241.0
47.5°	1919.4	1943.8	2007.1	2089.9	2128.9
50°	1807.4	1831.7	1890.2	1973.0	2002.2
52.5°	1695.3	1719.7	1778.1	1856.1	1885.3
55°	1578.4	1602.8	1656.4	1729.4	1753.8
57.5°	1466.4	1485.8	1534.6	1602.8	1622.3
60°	1349.4	1368.9	1407.9	1471.2	1485.8
62.5°	1222.8	1237.4	1281.2	1339.7	1359.2
65°	1105.9	1115.6	1149.7	1198.4	1203.3
67.5°	984.1	993.8	1027.9	1062.0	1076.6
70°	862.3	876.9	901.3	935.4	945.1
72.5°	745.4	760.0	784.3	813.6	818.4
75°	628.4	643.1	667.4	696.6	696.6
77.5°	516.4	531.0	560.2	584.6	584.6
80°	404.3	428.7	457.9	482.3	482.3
82.5°	311.8	331.3	370.2	389.7	389.7
85°	229.0	253.3	292.3	311.8	306.9
87.5°	165.6	190.0	224.1	238.7	233.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)