

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: P385396

Luminaire Tested: **24ID-90-L840-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385396  
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-L840-CNV  
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

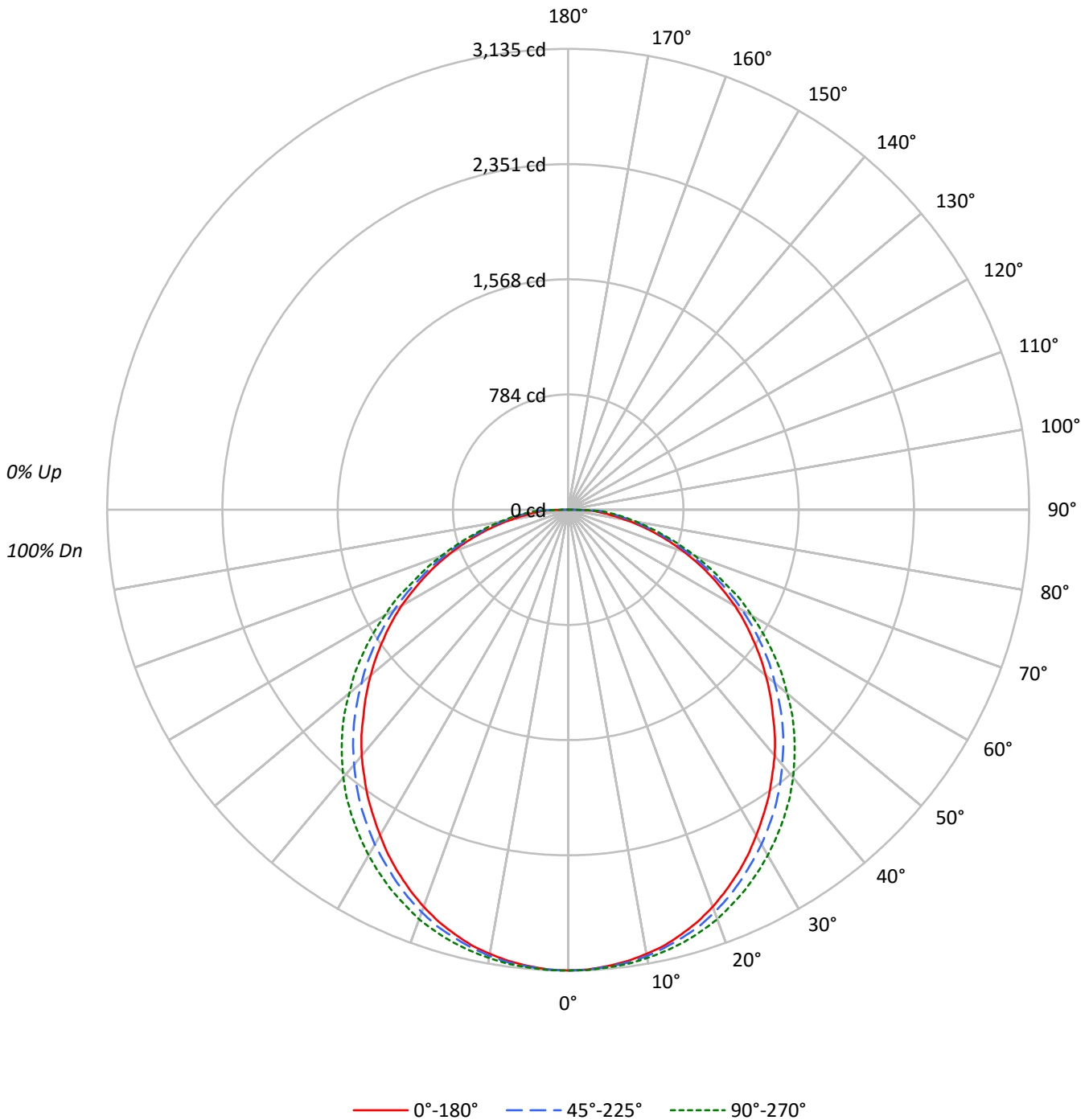
Lumens per Lamp: N/A  
Luminaire Lumens: 9092.5 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

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°	4218	4218	4218
5°	4193	4183	4191
10°	4162	4147	4170
15°	4117	4099	4149
20°	4055	4041	4120
25°	3973	3964	4075
30°	3881	3886	4023
35°	3796	3803	3970
40°	3707	3703	3904
45°	3593	3604	3820
50°	3498	3474	3700
55°	3392	3348	3568
60°	3287	3189	3391
65°	3137	2987	3154
70°	2954	2769	2936
75°	2744	2532	2681
80°	2460	2294	2463
85°	2324	2179	2355



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.6	3.3
10°-20°	850.1	9.3
20°-30°	1282.8	14.1
30°-40°	1539.7	16.9
40°-50°	1593.5	17.5
50°-60°	1443.6	15.9
60°-70°	1112.2	12.2
70°-80°	688.2	7.6
80°-90°	285.9	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°	2429.5	26.7
0°-40°	3969.2	43.7
0°-60°	7006.2	77.1
0°-90°	9092.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9092.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3135	3135	3135	3135	3135	
5°	3116	3116	3121	3121	3126	296
15°	2988	2993	3012	3031	3045	843
25°	2728	2738	2780	2828	2851	1257
35°	2378	2397	2459	2525	2558	1487
45°	1967	1995	2062	2137	2175	1521
55°	1532	1556	1608	1679	1702	1372
65°	1073	1083	1116	1163	1168	1061
75°	610	624	648	676	676	646
85°	222	246	284	303	298	240
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3134.9	3134.9	3134.9	3134.9	3134.9
2.5°	3130.2	3130.2	3130.2	3130.2	3134.9
5°	3116.0	3116.0	3120.7	3120.7	3125.5
7.5°	3097.1	3097.1	3106.5	3106.5	3116.0
10°	3068.7	3073.4	3082.9	3087.6	3097.1
12.5°	3035.6	3035.6	3049.8	3064.0	3073.4
15°	2988.3	2993.1	3012.0	3030.9	3045.1
17.5°	2936.3	2941.0	2969.4	2988.3	3007.2
20°	2874.8	2879.6	2912.7	2941.0	2964.7
22.5°	2803.9	2813.4	2851.2	2889.0	2907.9
25°	2728.3	2737.7	2780.3	2827.6	2851.2
27.5°	2647.9	2662.1	2704.6	2756.6	2785.0
30°	2558.0	2577.0	2629.0	2685.7	2714.1
32.5°	2468.2	2487.1	2543.9	2610.1	2638.4
35°	2378.4	2397.3	2458.8	2524.9	2558.0
37.5°	2279.1	2298.0	2364.2	2435.1	2472.9
40°	2184.5	2203.4	2264.9	2345.3	2378.4
42.5°	2080.5	2099.4	2165.6	2241.2	2279.1
45°	1967.0	1995.4	2061.6	2137.2	2175.1
47.5°	1863.0	1886.6	1948.1	2028.5	2066.3
50°	1754.2	1777.9	1834.6	1915.0	1943.4
52.5°	1645.5	1669.1	1725.9	1801.5	1829.9
55°	1532.0	1555.6	1607.6	1678.6	1702.2
57.5°	1423.2	1442.2	1489.4	1555.6	1574.5
60°	1309.8	1328.7	1366.5	1428.0	1442.2
62.5°	1186.8	1201.0	1243.6	1300.3	1319.2
65°	1073.3	1082.8	1115.9	1163.2	1167.9
67.5°	955.1	964.6	997.7	1030.8	1045.0
70°	836.9	851.1	874.7	907.8	917.3
72.5°	723.4	737.6	761.3	789.6	794.4
75°	610.0	624.1	647.8	676.2	676.2
77.5°	501.2	515.4	543.8	567.4	567.4
80°	392.5	416.1	444.5	468.1	468.1
82.5°	302.6	321.5	359.4	378.3	378.3
85°	222.2	245.9	283.7	302.6	297.9
87.5°	160.8	184.4	217.5	231.7	227.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)