

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: P385224

Luminaire Tested: **24ID-85-L840-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385224  
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-85-L840-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

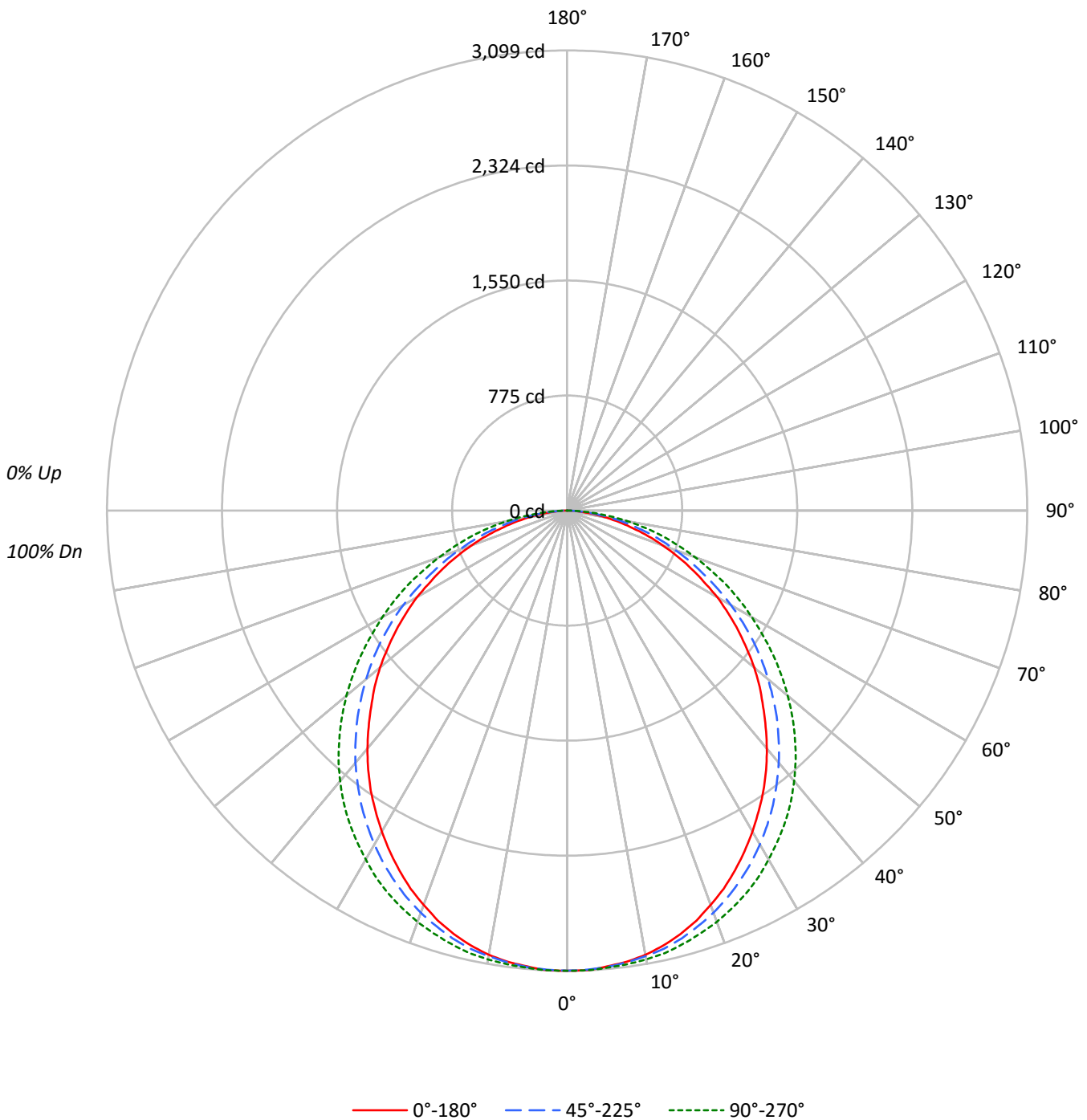
Lumens per Lamp: N/A  
Luminaire Lumens: 8604.8 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 82.4  
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°	4170	4170	4170
5°	4162	4168	4174
10°	4151	4163	4193
15°	4111	4154	4208
20°	4046	4127	4220
25°	3969	4085	4227
30°	3878	4033	4215
35°	3786	3971	4206
40°	3675	3896	4178
45°	3551	3808	4130
50°	3444	3698	4061
55°	3299	3584	3971
60°	3142	3434	3866
65°	2930	3234	3759
70°	2698	3039	3603
75°	2392	2821	3452
80°	2018	2522	3195
85°	1474	1944	2546



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.4	3.4
10°-20°	841.6	9.8
20°-30°	1269.3	14.8
30°-40°	1515.4	17.6
40°-50°	1548.8	18.0
50°-60°	1373.3	16.0
60°-70°	1023.8	11.9
70°-80°	584.9	6.8
80°-90°	154.3	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°	2404.3	27.9
0°-40°	3919.7	45.6
0°-60°	6841.9	79.5
0°-90°	8604.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8604.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3099	3099	3099	3099	3099	
5°	3082	3082	3086	3086	3090	293
15°	2952	2960	2982	3008	3021	832
25°	2674	2696	2752	2813	2847	1231
35°	2305	2335	2418	2513	2561	1440
45°	1866	1906	2001	2110	2170	1442
55°	1406	1432	1528	1636	1693	1257
65°	920	942	1016	1120	1181	912
75°	460	482	543	625	664	491
85°	96	100	126	156	165	119
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3099.1	3099.1	3099.1	3099.1	3099.1
2.5°	3099.1	3094.8	3094.8	3094.8	3099.1
5°	3081.8	3081.8	3086.1	3086.1	3090.5
7.5°	3064.4	3064.4	3068.8	3073.1	3081.8
10°	3038.4	3038.4	3047.1	3060.1	3068.8
12.5°	2999.3	3003.7	3021.0	3038.4	3051.4
15°	2951.6	2960.3	2982.0	3008.0	3021.0
17.5°	2895.1	2903.8	2934.2	2968.9	2986.3
20°	2825.7	2843.1	2882.1	2925.5	2947.2
22.5°	2756.2	2773.6	2821.4	2873.4	2899.5
25°	2673.8	2695.5	2751.9	2812.7	2847.4
27.5°	2587.0	2613.0	2678.1	2747.6	2786.6
30°	2495.8	2526.2	2595.6	2673.8	2712.8
32.5°	2400.3	2430.7	2508.8	2595.6	2639.1
35°	2304.8	2335.2	2417.7	2513.2	2560.9
37.5°	2200.7	2231.0	2317.9	2422.0	2474.1
40°	2092.1	2126.9	2218.0	2322.2	2378.6
42.5°	1979.3	2018.4	2109.5	2222.4	2278.8
45°	1866.4	1905.5	2001.0	2109.5	2170.3
47.5°	1757.9	1788.3	1883.8	1996.7	2057.4
50°	1645.1	1671.1	1766.6	1879.5	1940.2
52.5°	1523.5	1558.3	1649.4	1762.3	1818.7
55°	1406.3	1432.4	1527.9	1636.4	1692.8
57.5°	1284.8	1310.8	1402.0	1510.5	1562.6
60°	1167.6	1193.6	1276.1	1384.6	1436.7
62.5°	1037.4	1063.4	1145.9	1258.8	1310.8
65°	920.2	941.9	1015.7	1119.9	1180.6
67.5°	803.0	824.7	894.2	994.0	1041.7
70°	685.8	703.2	772.6	863.8	915.9
72.5°	573.0	590.3	659.8	742.2	785.6
75°	460.1	481.8	542.6	625.0	664.1
77.5°	355.9	377.6	429.7	503.5	538.2
80°	260.4	277.8	325.5	382.0	412.4
82.5°	173.6	186.6	221.4	269.1	290.8
85°	95.5	99.8	125.9	156.3	164.9
87.5°	39.1	39.1	47.7	52.1	56.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)