

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: P385392

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385392
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-85-L840-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

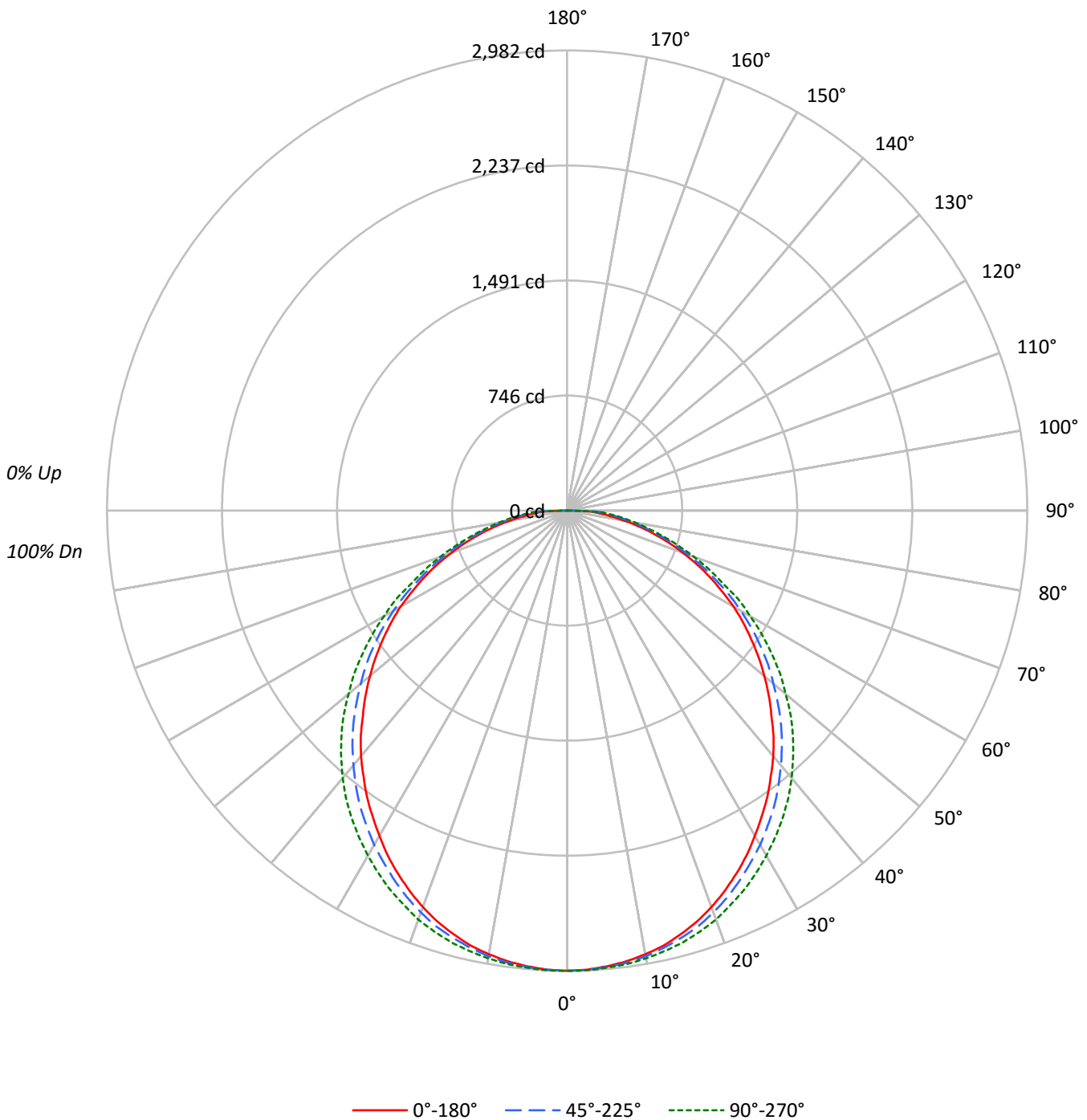
Lumens per Lamp: N/A
Luminaire Lumens: 8649.7 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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	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°	4013	4013	4013
5°	3989	3979	3987
10°	3959	3945	3967
15°	3916	3899	3947
20°	3857	3844	3919
25°	3780	3771	3876
30°	3692	3697	3827
35°	3611	3618	3777
40°	3527	3523	3714
45°	3418	3429	3634
50°	3328	3305	3520
55°	3227	3186	3395
60°	3127	3034	3226
65°	2984	2841	3001
70°	2810	2634	2793
75°	2611	2409	2550
80°	2340	2182	2343
85°	2211	2073	2241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	3.3
10°-20°	808.7	9.3
20°-30°	1220.3	14.1
30°-40°	1464.7	16.9
40°-50°	1515.9	17.5
50°-60°	1373.3	15.9
60°-70°	1058.0	12.2
70°-80°	654.7	7.6
80°-90°	271.9	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°	2311.2	26.7
0°-40°	3775.9	43.7
0°-60°	6665.1	77.1
0°-90°	8649.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8649.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2982	2982	2982	2982	2982	
5°	2964	2964	2969	2969	2973	282
15°	2843	2847	2865	2883	2897	802
25°	2595	2604	2645	2690	2712	1195
35°	2262	2280	2339	2402	2434	1414
45°	1871	1898	1961	2033	2069	1447
55°	1457	1480	1529	1597	1619	1305
65°	1021	1030	1062	1106	1111	1010
75°	580	594	616	643	643	615
85°	211	234	270	288	283	228
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2982.2	2982.2	2982.2	2982.2	2982.2
2.5°	2977.7	2977.7	2977.7	2977.7	2982.2
5°	2964.2	2964.2	2968.7	2968.7	2973.2
7.5°	2946.3	2946.3	2955.3	2955.3	2964.2
10°	2919.3	2923.8	2932.8	2937.3	2946.3
12.5°	2887.8	2887.8	2901.3	2914.8	2923.8
15°	2842.8	2847.3	2865.3	2883.3	2896.8
17.5°	2793.3	2797.8	2824.8	2842.8	2860.8
20°	2734.8	2739.3	2770.8	2797.8	2820.3
22.5°	2667.4	2676.4	2712.4	2748.3	2766.3
25°	2595.4	2604.4	2644.9	2689.9	2712.4
27.5°	2518.9	2532.4	2572.9	2622.4	2649.4
30°	2433.5	2451.5	2500.9	2554.9	2581.9
32.5°	2348.0	2366.0	2420.0	2483.0	2509.9
35°	2262.5	2280.5	2339.0	2402.0	2433.5
37.5°	2168.1	2186.1	2249.1	2316.5	2352.5
40°	2078.1	2096.1	2154.6	2231.1	2262.5
42.5°	1979.2	1997.2	2060.1	2132.1	2168.1
45°	1871.2	1898.2	1961.2	2033.1	2069.1
47.5°	1772.3	1794.7	1853.2	1929.7	1965.7
50°	1668.8	1691.3	1745.3	1821.7	1848.7
52.5°	1565.3	1587.8	1641.8	1713.8	1740.8
55°	1457.4	1479.9	1529.4	1596.8	1619.3
57.5°	1353.9	1371.9	1416.9	1479.9	1497.9
60°	1246.0	1264.0	1300.0	1358.4	1371.9
62.5°	1129.0	1142.5	1183.0	1237.0	1255.0
65°	1021.1	1030.1	1061.6	1106.5	1111.0
67.5°	908.6	917.6	949.1	980.6	994.1
70°	796.2	809.7	832.1	863.6	872.6
72.5°	688.2	701.7	724.2	751.2	755.7
75°	580.3	593.7	616.2	643.2	643.2
77.5°	476.8	490.3	517.3	539.8	539.8
80°	373.3	395.8	422.8	445.3	445.3
82.5°	287.9	305.9	341.9	359.8	359.8
85°	211.4	233.9	269.9	287.9	283.4
87.5°	152.9	175.4	206.9	220.4	215.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)