

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: P385393

Luminaire Tested: **24ID-85-L850-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385393
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-L850-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

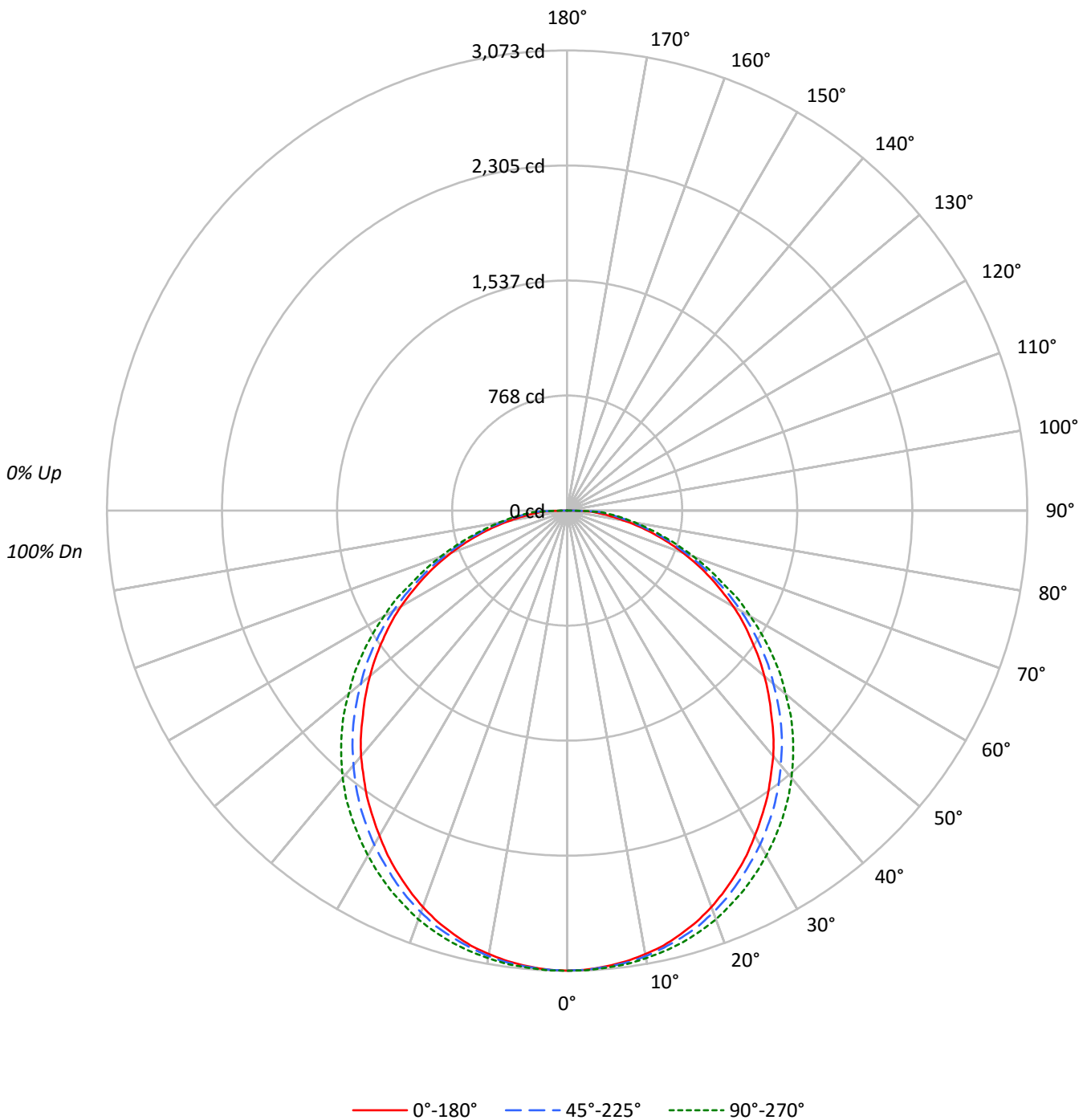
Lumens per Lamp: N/A
Luminaire Lumens: 8911.8 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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°	4134	4134	4134
5°	4110	4099	4107
10°	4079	4065	4087
15°	4035	4017	4067
20°	3974	3960	4038
25°	3894	3885	3993
30°	3804	3809	3943
35°	3720	3728	3891
40°	3634	3630	3827
45°	3522	3533	3744
50°	3429	3405	3627
55°	3324	3282	3497
60°	3222	3126	3324
65°	3075	2927	3092
70°	2896	2714	2878
75°	2689	2482	2628
80°	2411	2248	2414
85°	2278	2136	2309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.7	3.3
10°-20°	833.2	9.3
20°-30°	1257.3	14.1
30°-40°	1509.1	16.9
40°-50°	1561.8	17.5
50°-60°	1414.9	15.9
60°-70°	1090.1	12.2
70°-80°	674.5	7.6
80°-90°	280.2	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°	2381.2	26.7
0°-40°	3890.3	43.7
0°-60°	6867.0	77.1
0°-90°	8911.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8911.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3073	3073	3073	3073	3073	
5°	3054	3054	3059	3059	3063	290
15°	2929	2934	2952	2971	2985	826
25°	2674	2683	2725	2771	2794	1232
35°	2331	2350	2410	2475	2507	1457
45°	1928	1956	2021	2095	2132	1491
55°	1502	1525	1576	1645	1668	1344
65°	1052	1061	1094	1140	1145	1040
75°	598	612	635	663	663	633
85°	218	241	278	297	292	235
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3072.6	3072.6	3072.6	3072.6	3072.6
2.5°	3068.0	3068.0	3068.0	3068.0	3072.6
5°	3054.1	3054.1	3058.7	3058.7	3063.3
7.5°	3035.5	3035.5	3044.8	3044.8	3054.1
10°	3007.7	3012.4	3021.6	3026.3	3035.5
12.5°	2975.3	2975.3	2989.2	3003.1	3012.4
15°	2928.9	2933.6	2952.1	2970.7	2984.6
17.5°	2878.0	2882.6	2910.4	2928.9	2947.5
20°	2817.7	2822.4	2854.8	2882.6	2905.8
22.5°	2748.2	2757.5	2794.5	2831.6	2850.2
25°	2674.0	2683.3	2725.0	2771.4	2794.5
27.5°	2595.3	2609.2	2650.9	2701.9	2729.7
30°	2507.2	2525.7	2576.7	2632.3	2660.1
32.5°	2419.2	2437.7	2493.3	2558.2	2586.0
35°	2331.1	2349.6	2409.9	2474.8	2507.2
37.5°	2233.8	2252.3	2317.2	2386.7	2423.8
40°	2141.1	2159.6	2219.9	2298.7	2331.1
42.5°	2039.1	2057.7	2122.6	2196.7	2233.8
45°	1927.9	1955.7	2020.6	2094.7	2131.8
47.5°	1826.0	1849.1	1909.4	1988.2	2025.2
50°	1719.4	1742.5	1798.1	1876.9	1904.7
52.5°	1612.8	1635.9	1691.6	1765.7	1793.5
55°	1501.5	1524.7	1575.7	1645.2	1668.4
57.5°	1395.0	1413.5	1459.8	1524.7	1543.3
60°	1283.7	1302.3	1339.3	1399.6	1413.5
62.5°	1163.2	1177.1	1218.8	1274.5	1293.0
65°	1052.0	1061.3	1093.7	1140.1	1144.7
67.5°	936.1	945.4	977.9	1010.3	1024.2
70°	820.3	834.2	857.4	889.8	899.1
72.5°	709.1	723.0	746.1	773.9	778.6
75°	597.8	611.7	634.9	662.7	662.7
77.5°	491.2	505.1	533.0	556.1	556.1
80°	384.7	407.8	435.6	458.8	458.8
82.5°	296.6	315.1	352.2	370.8	370.8
85°	217.8	241.0	278.1	296.6	292.0
87.5°	157.6	180.7	213.2	227.1	222.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)