

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: P737938

Luminaire Tested: **14PT-70-PB1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PT-70-PB1-L850
Description: 7000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND BEVEL LENS

Light Source: -
Ballast/Driver: -

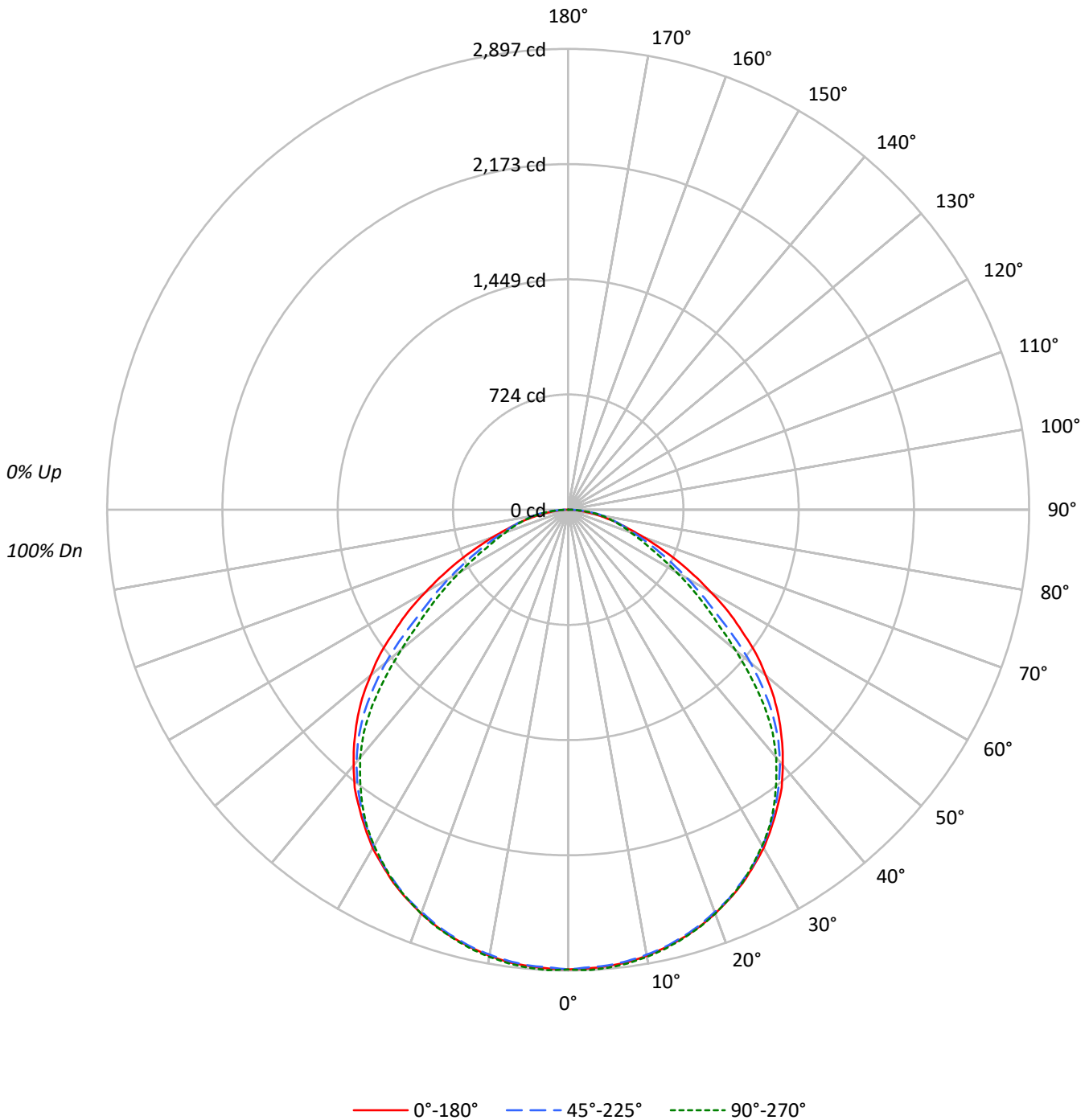
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7207.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 62.7
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P737938
CATALOG NUMBER: 14PT-70-PB1-L850

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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88					86				
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64					62				
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49					47				
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44					42				
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39					37				
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35					33				
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32					30				
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8665	8665	8665
5°	8666	8656	8698
10°	8669	8647	8691
15°	8651	8629	8662
20°	8620	8586	8620
25°	8573	8538	8561
30°	8504	8455	8443
35°	8380	8314	8262
40°	8209	8098	7959
45°	7959	7703	7386
50°	7561	6981	6384
55°	6969	5928	5500
60°	6203	5180	4711
65°	5321	4489	4010
70°	4394	3958	3677
75°	3707	3789	3583
80°	3130	3867	3683
85°	2446	3915	3423



TEST NUMBER: P737938

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.0	3.8
10°-20°	786.4	10.9
20°-30°	1191.2	16.5
30°-40°	1419.4	19.7
40°-50°	1388.0	19.3
50°-60°	1049.8	14.6
60°-70°	645.0	8.9
70°-80°	343.6	4.8
80°-90°	109.6	1.5
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°	2251.6	31.2
0°-40°	3670.9	50.9
0°-60°	6108.7	84.8
0°-90°	7207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2890	2890	2890	2890	2890	
5°	2880	2883	2876	2887	2890	274
15°	2787	2791	2780	2791	2791	787
25°	2592	2588	2581	2585	2588	1194
35°	2290	2286	2272	2261	2258	1432
45°	1877	1866	1817	1756	1742	1444
55°	1333	1266	1134	1070	1052	1194
65°	750	690	633	583	565	746
75°	320	324	327	316	309	343
85°	71	92	114	107	100	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2890.3	2890.3	2890.3	2890.3	2890.3
2.5°	2886.7	2890.3	2879.6	2893.8	2897.4
5°	2879.6	2883.2	2876.1	2886.7	2890.3
7.5°	2869.0	2869.0	2861.8	2872.5	2876.1
10°	2847.6	2847.6	2840.5	2851.2	2854.7
12.5°	2819.2	2819.2	2815.6	2822.7	2826.3
15°	2787.2	2790.7	2780.1	2790.7	2790.7
17.5°	2748.1	2744.5	2741.0	2748.1	2751.6
20°	2701.9	2701.9	2691.2	2698.3	2701.9
22.5°	2648.5	2648.5	2645.0	2648.5	2645.0
25°	2591.7	2588.1	2581.0	2584.6	2588.1
27.5°	2524.1	2524.1	2517.0	2517.0	2513.5
30°	2456.6	2453.0	2442.3	2435.2	2438.8
32.5°	2374.8	2371.2	2360.6	2353.5	2357.0
35°	2289.5	2285.9	2271.7	2261.0	2257.5
37.5°	2204.2	2193.5	2175.7	2161.5	2147.3
40°	2097.5	2086.8	2069.1	2037.1	2033.5
42.5°	1990.9	1980.2	1951.7	1912.6	1902.0
45°	1877.1	1866.4	1816.7	1756.2	1742.0
47.5°	1756.2	1738.4	1660.2	1585.6	1557.1
50°	1621.1	1589.1	1496.7	1400.7	1368.7
52.5°	1489.6	1432.7	1311.8	1226.5	1194.5
55°	1333.2	1265.6	1134.1	1070.1	1052.3
57.5°	1194.5	1102.1	995.4	931.4	917.2
60°	1034.5	949.2	863.9	807.0	785.7
62.5°	888.8	814.1	743.0	693.2	668.4
65°	750.1	689.7	632.8	583.0	565.3
67.5°	615.0	583.0	536.8	497.7	487.0
70°	501.3	483.5	451.5	433.7	419.5
72.5°	398.2	405.3	383.9	376.8	366.2
75°	320.0	323.5	327.1	316.4	309.3
77.5°	241.7	259.5	273.7	266.6	259.5
80°	181.3	199.1	224.0	213.3	213.3
82.5°	124.4	145.8	167.1	160.0	156.4
85°	71.1	92.4	113.8	106.7	99.5
87.5°	28.4	46.2	49.8	49.8	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)