

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: P737986

Luminaire Tested: **14PT-80-PB1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737986
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-80-PB1-L850
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND BEVEL LENS

Light Source: -
Ballast/Driver: -

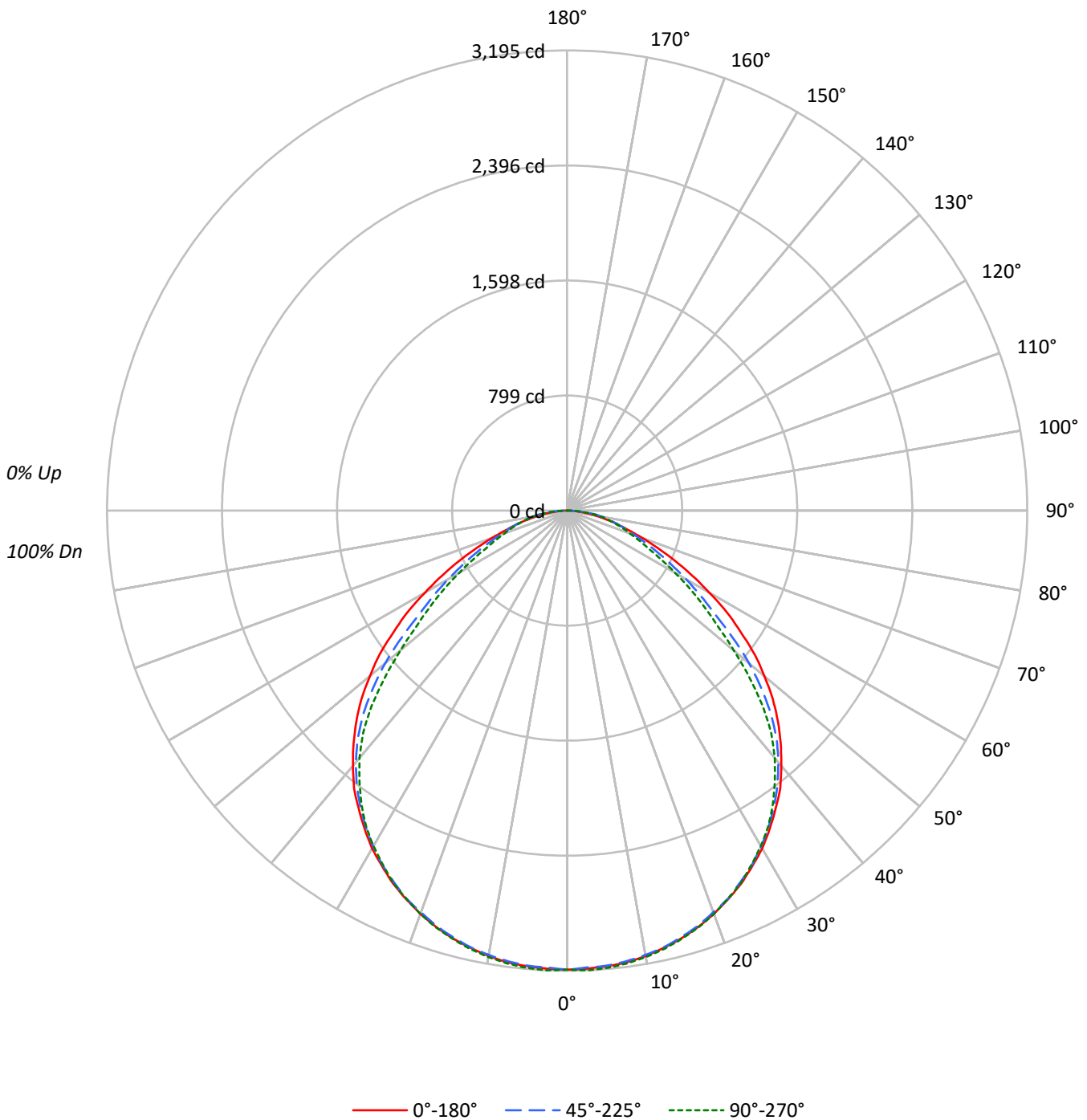
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7948.0 lumens
Efficiency: N/A
Efficacy: 111.9 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): 71
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	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°	9556	9556	9556
5°	9557	9546	9593
10°	9560	9537	9584
15°	9541	9516	9553
20°	9507	9469	9507
25°	9455	9416	9442
30°	9379	9325	9311
35°	9241	9169	9112
40°	9053	8930	8777
45°	8777	8494	8145
50°	8339	7699	7040
55°	7685	6537	6066
60°	6841	5713	5196
65°	5868	4951	4422
70°	4846	4364	4055
75°	4088	4178	3951
80°	3453	4265	4061
85°	2697	4317	3777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.2	3.8
10°-20°	867.2	10.9
20°-30°	1313.7	16.5
30°-40°	1565.3	19.7
40°-50°	1530.7	19.3
50°-60°	1157.7	14.6
60°-70°	711.3	8.9
70°-80°	379.0	4.8
80°-90°	120.9	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°	2483.1	31.2
0°-40°	4048.4	50.9
0°-60°	6736.8	84.8
0°-90°	7948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3188	3188	3188	3188	3188	
5°	3176	3180	3172	3184	3188	302
15°	3074	3078	3066	3078	3078	867
25°	2858	2854	2846	2850	2854	1316
35°	2525	2521	2505	2494	2490	1579
45°	2070	2058	2003	1937	1921	1592
55°	1470	1396	1251	1180	1160	1317
65°	827	761	698	643	623	823
75°	353	357	361	349	341	378
85°	78	102	126	118	110	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3187.5	3187.5	3187.5	3187.5	3187.5
2.5°	3183.5	3187.5	3175.7	3191.4	3195.3
5°	3175.7	3179.6	3171.8	3183.5	3187.5
7.5°	3163.9	3163.9	3156.1	3167.9	3171.8
10°	3140.4	3140.4	3132.6	3144.3	3148.3
12.5°	3109.0	3109.0	3105.1	3113.0	3116.9
15°	3073.8	3077.7	3065.9	3077.7	3077.7
17.5°	3030.6	3026.7	3022.8	3030.6	3034.6
20°	2979.7	2979.7	2967.9	2975.7	2979.7
22.5°	2920.9	2920.9	2916.9	2920.9	2916.9
25°	2858.1	2854.2	2846.4	2850.3	2854.2
27.5°	2783.6	2783.6	2775.8	2775.8	2771.9
30°	2709.1	2705.2	2693.5	2685.6	2689.5
32.5°	2619.0	2615.1	2603.3	2595.4	2599.4
35°	2524.9	2521.0	2505.3	2493.5	2489.6
37.5°	2430.8	2419.0	2399.4	2383.7	2368.1
40°	2313.2	2301.4	2281.8	2246.5	2242.6
42.5°	2195.5	2183.8	2152.4	2109.3	2097.5
45°	2070.1	2058.3	2003.4	1936.8	1921.1
47.5°	1936.8	1917.2	1830.9	1748.6	1717.2
50°	1787.8	1752.5	1650.6	1544.7	1509.4
52.5°	1642.7	1580.0	1446.7	1352.6	1317.3
55°	1470.2	1395.7	1250.7	1180.1	1160.5
57.5°	1317.3	1215.4	1097.8	1027.2	1011.5
60°	1140.9	1046.8	952.7	890.0	866.5
62.5°	980.2	897.8	819.4	764.5	737.1
65°	827.2	760.6	697.9	643.0	623.4
67.5°	678.3	643.0	592.0	548.9	537.1
70°	552.8	533.2	497.9	478.3	462.6
72.5°	439.1	447.0	423.4	415.6	403.8
75°	352.9	356.8	360.7	348.9	341.1
77.5°	266.6	286.2	301.9	294.0	286.2
80°	200.0	219.6	247.0	235.2	235.2
82.5°	137.2	160.7	184.3	176.4	172.5
85°	78.4	101.9	125.5	117.6	109.8
87.5°	31.4	51.0	54.9	54.9	51.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)