

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: P737850

Luminaire Tested: **14PT-50-PC3-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PT-50-PC3-L850
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS

Light Source: -
Ballast/Driver: -

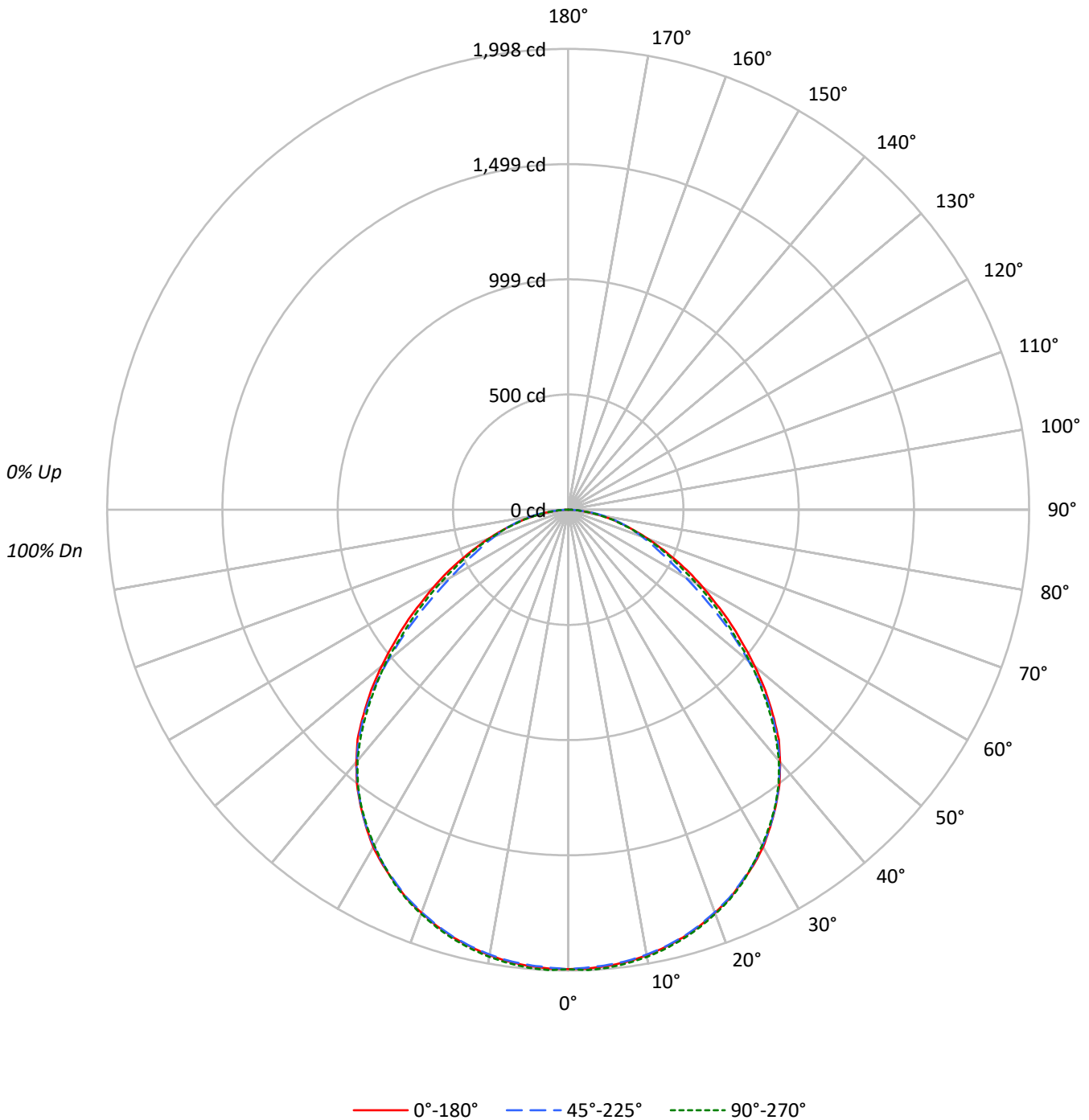
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5022.0 lumens
Efficiency: N/A
Efficacy: 122.8 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): 40.9
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

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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	92	90	91	89	87					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					72				
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64					62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56					54				
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49					47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43					41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39					37				
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35					33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31					30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5972	5972	5972
5°	5974	5963	5997
10°	5974	5963	5995
15°	5960	5953	5980
20°	5933	5924	5949
25°	5892	5883	5906
30°	5848	5828	5818
35°	5742	5737	5726
40°	5591	5583	5557
45°	5317	5277	5223
50°	4922	4756	4809
55°	4491	4126	4312
60°	4050	3520	3862
65°	3619	3149	3473
70°	3210	2979	3122
75°	2839	2889	2781
80°	2448	2756	2436
85°	1837	2181	1837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	3.8
10°-20°	542.3	10.8
20°-30°	821.1	16.3
30°-40°	978.9	19.5
40°-50°	956.5	19.0
50°-60°	731.4	14.6
60°-70°	469.5	9.3
70°-80°	261.2	5.2
80°-90°	72.1	1.4
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°	1552.3	30.9
0°-40°	2531.2	50.4
0°-60°	4219.1	84.0
0°-90°	5022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1985	1986	1981	1991	1993	189
15°	1920	1922	1918	1924	1926	542
25°	1781	1783	1778	1784	1786	822
35°	1569	1570	1567	1567	1565	980
45°	1254	1257	1245	1242	1232	965
55°	859	829	789	799	825	768
65°	510	471	444	459	490	509
75°	245	247	249	246	240	262
85°	53	63	63	61	53	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1992.1	1992.1	1992.1	1992.1	1992.1
2.5°	1990.7	1991.4	1986.4	1994.9	1997.8
5°	1985.0	1986.4	1981.4	1990.7	1992.8
7.5°	1976.4	1977.8	1972.8	1982.1	1982.8
10°	1962.2	1962.9	1958.6	1967.9	1969.3
12.5°	1942.9	1945.1	1940.1	1948.6	1949.3
15°	1920.1	1921.5	1918.0	1924.4	1926.5
17.5°	1893.1	1893.8	1890.2	1897.3	1898.0
20°	1859.6	1859.6	1856.7	1864.6	1864.6
22.5°	1825.4	1823.2	1822.5	1825.4	1829.6
25°	1781.2	1783.3	1778.3	1784.0	1785.5
27.5°	1738.4	1738.4	1734.2	1737.0	1733.5
30°	1689.3	1686.4	1683.6	1684.3	1680.7
32.5°	1630.1	1630.1	1628.7	1628.7	1624.4
35°	1568.9	1570.3	1567.4	1566.7	1564.6
37.5°	1503.3	1505.5	1500.5	1499.1	1497.6
40°	1428.5	1428.5	1426.4	1423.5	1420.0
42.5°	1350.9	1350.9	1341.6	1334.5	1329.5
45°	1254.0	1256.8	1244.7	1241.8	1231.9
47.5°	1157.8	1155.6	1139.2	1137.1	1131.4
50°	1055.2	1043.1	1019.6	1026.0	1031.0
52.5°	952.6	937.6	903.4	910.5	919.1
55°	859.2	829.3	789.4	799.4	825.0
57.5°	761.6	721.7	681.8	700.4	732.4
60°	675.4	630.5	587.1	607.0	644.1
62.5°	592.8	545.0	510.1	529.4	560.7
65°	510.1	470.9	443.9	458.8	489.5
67.5°	434.6	408.2	389.7	396.8	421.8
70°	366.2	349.8	339.9	342.0	356.2
72.5°	301.4	297.1	293.5	293.5	295.0
75°	245.1	247.2	249.4	245.8	240.1
77.5°	193.1	200.2	205.2	198.1	190.9
80°	141.8	153.2	159.6	151.8	141.1
82.5°	96.9	109.7	111.9	106.9	94.8
85°	53.4	62.7	63.4	61.3	53.4
87.5°	19.9	23.5	25.6	23.5	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)