

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: P737849

Luminaire Tested: **14PT-50-PC3-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737849
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-L840
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PARAMID LENS

Light Source: -
Ballast/Driver: -

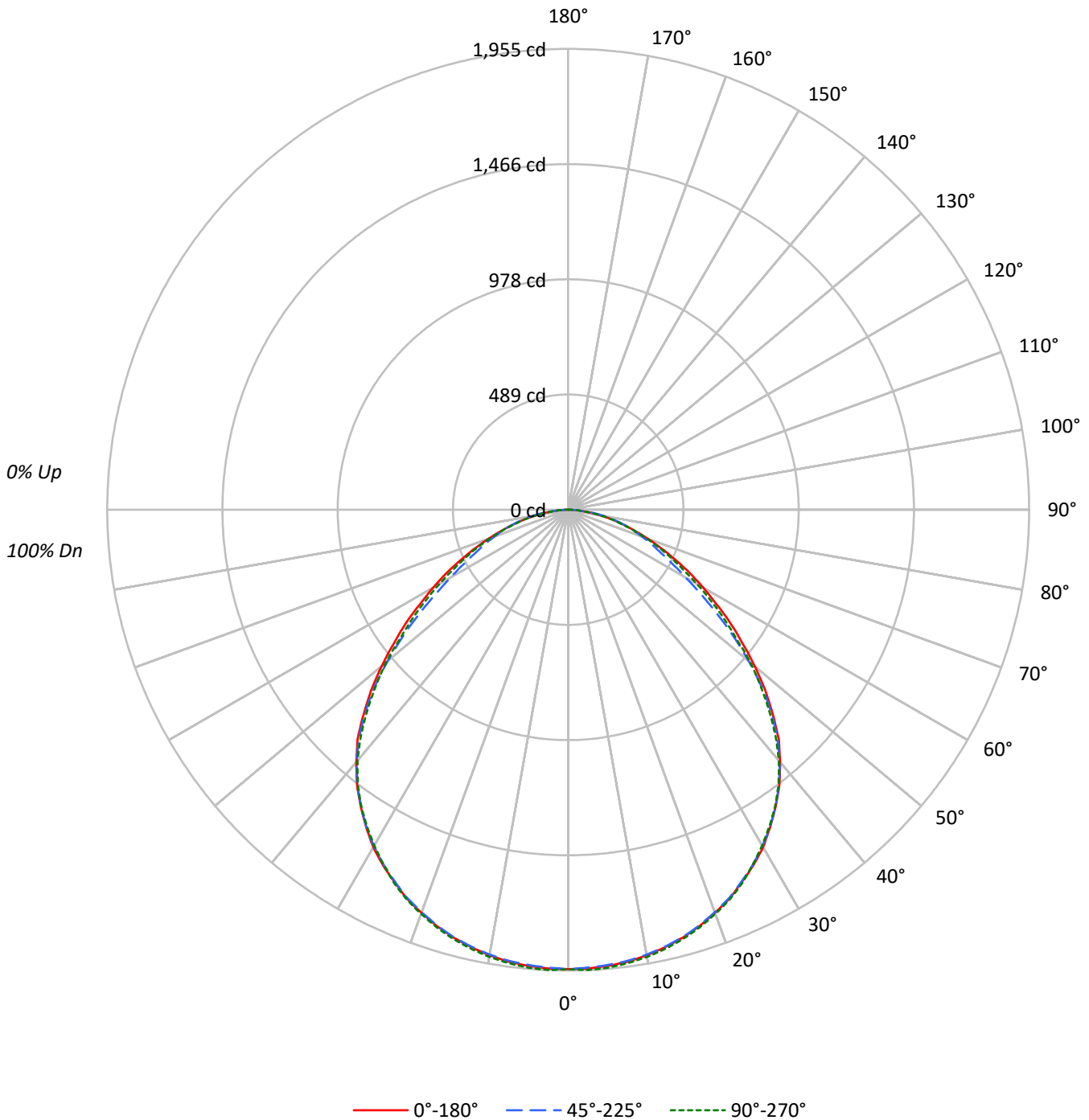
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4914.0 lumens
Efficiency: N/A
Efficacy: 120.1 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°	5844	5844	5844
5°	5845	5835	5868
10°	5845	5834	5866
15°	5831	5825	5851
20°	5805	5796	5821
25°	5766	5756	5779
30°	5722	5703	5693
35°	5618	5613	5603
40°	5471	5462	5438
45°	5202	5164	5111
50°	4816	4653	4705
55°	4395	4037	4220
60°	3963	3445	3779
65°	3541	3081	3397
70°	3141	2915	3056
75°	2778	2826	2721
80°	2395	2697	2383
85°	1799	2133	1799



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.9	3.8
10°-20°	530.6	10.8
20°-30°	803.4	16.3
30°-40°	957.9	19.5
40°-50°	935.9	19.0
50°-60°	715.7	14.6
60°-70°	459.5	9.3
70°-80°	255.6	5.2
80°-90°	70.6	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°	1518.9	30.9
0°-40°	2476.8	50.4
0°-60°	4128.3	84.0
0°-90°	4914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1949	1949	1949	1949	1949	
5°	1942	1944	1939	1948	1950	185
15°	1879	1880	1877	1883	1885	530
25°	1743	1745	1740	1746	1747	804
35°	1535	1536	1534	1533	1531	959
45°	1227	1230	1218	1215	1205	944
55°	841	812	772	782	807	752
65°	499	461	434	449	479	498
75°	240	242	244	240	235	256
85°	52	61	62	60	52	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1949.2	1949.2	1949.2	1949.2	1949.2
2.5°	1947.8	1948.5	1943.7	1952.0	1954.8
5°	1942.3	1943.7	1938.8	1947.8	1949.9
7.5°	1933.9	1935.3	1930.4	1939.5	1940.2
10°	1920.0	1920.7	1916.5	1925.5	1926.9
12.5°	1901.1	1903.2	1898.4	1906.7	1907.4
15°	1878.8	1880.2	1876.7	1883.0	1885.1
17.5°	1852.3	1853.0	1849.6	1856.5	1857.2
20°	1819.6	1819.6	1816.8	1824.5	1824.5
22.5°	1786.1	1784.0	1783.3	1786.1	1790.3
25°	1742.9	1745.0	1740.1	1745.7	1747.1
27.5°	1701.1	1701.1	1696.9	1699.7	1696.2
30°	1653.0	1650.2	1647.4	1648.1	1644.6
32.5°	1595.1	1595.1	1593.7	1593.7	1589.5
35°	1535.1	1536.5	1533.7	1533.0	1531.0
37.5°	1471.0	1473.1	1468.2	1466.8	1465.4
40°	1397.8	1397.8	1395.7	1392.9	1389.4
42.5°	1321.8	1321.8	1312.7	1305.8	1300.9
45°	1227.0	1229.8	1217.9	1215.1	1205.4
47.5°	1132.9	1130.8	1114.7	1112.7	1107.1
50°	1032.5	1020.6	997.6	1003.9	1008.8
52.5°	932.1	917.5	884.0	891.0	899.3
55°	840.8	811.5	772.4	782.2	807.3
57.5°	745.3	706.2	667.2	685.3	716.7
60°	660.9	617.0	574.5	594.0	630.2
62.5°	580.0	533.3	499.2	518.0	548.7
65°	499.2	460.8	434.3	449.0	478.9
67.5°	425.3	399.5	381.3	388.3	412.7
70°	358.3	342.3	332.5	334.6	348.6
72.5°	294.9	290.7	287.2	287.2	288.6
75°	239.8	241.9	244.0	240.5	234.9
77.5°	188.9	195.9	200.8	193.8	186.8
80°	138.7	149.9	156.2	148.5	138.0
82.5°	94.8	107.4	109.5	104.6	92.7
85°	52.3	61.3	62.0	60.0	52.3
87.5°	19.5	23.0	25.1	23.0	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)