

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: P413012

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

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-57)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-50-PC3-L840
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

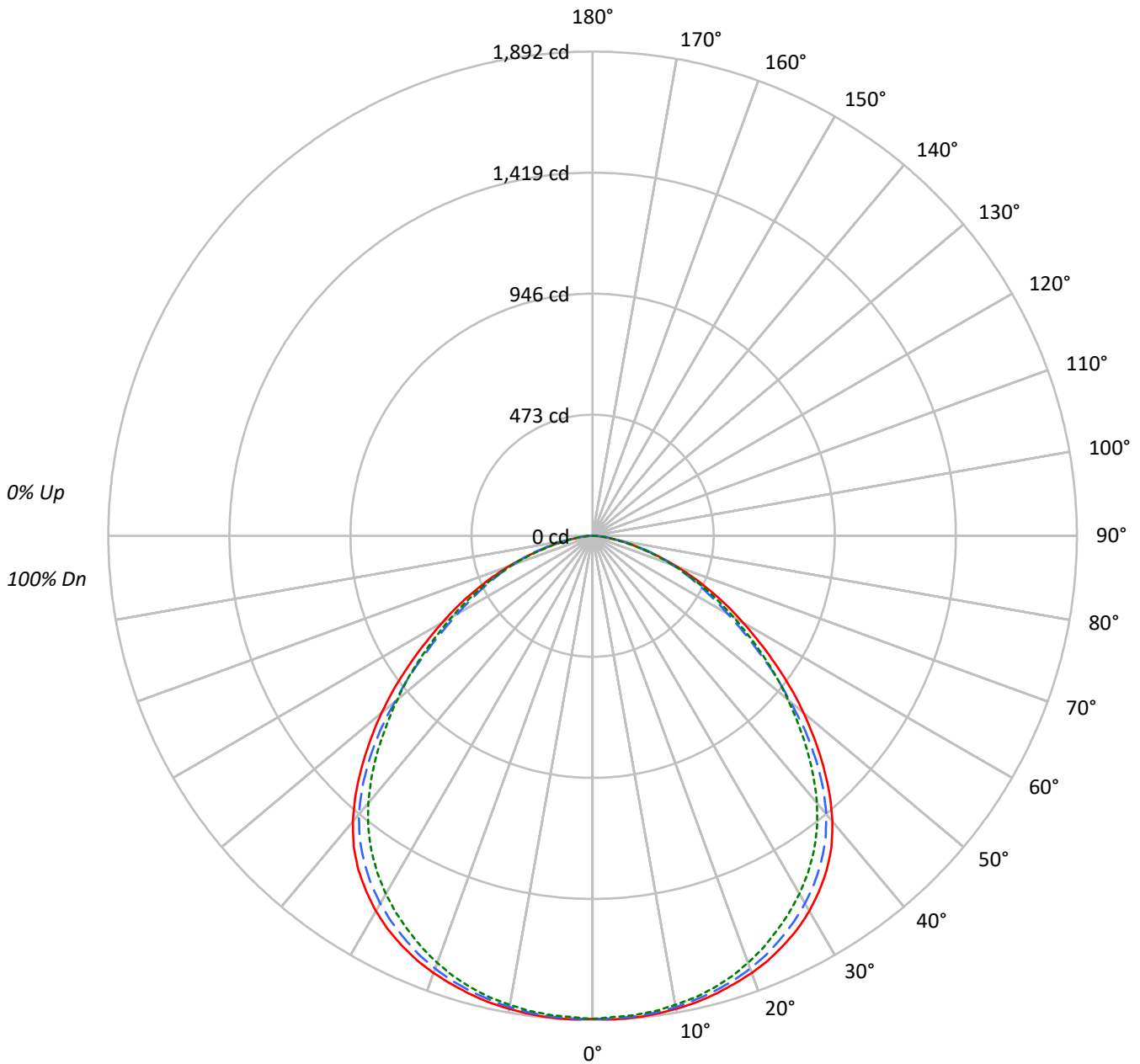
Lumens per Lamp: N/A
Luminaire Lumens: 4878.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.6
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									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73																			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	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	53	49	47																			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41																			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37																			
8	63	49	41	36	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°	5079	5079	5079
5°	5106	5092	5078
10°	5130	5110	5085
15°	5165	5133	5095
20°	5206	5154	5084
25°	5244	5160	5056
30°	5262	5156	5020
35°	5239	5112	4947
40°	5120	4988	4788
45°	4853	4687	4515
50°	4505	4217	4168
55°	4078	3717	3800
60°	3647	3274	3418
65°	3218	2935	3037
70°	2739	2600	2620
75°	2105	2219	2044
80°	1543	1621	1530
85°	1034	1136	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	3.7
10°-20°	520.0	10.7
20°-30°	799.7	16.4
30°-40°	967.7	19.8
40°-50°	944.7	19.4
50°-60°	730.0	15.0
60°-70°	468.8	9.6
70°-80°	221.3	4.5
80°-90°	46.4	1.0
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°	1499.0	30.7
0°-40°	2466.7	50.6
0°-60°	4141.5	84.9
0°-90°	4878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1888	1888	1888	1888	1888	
5°	1890	1882	1885	1883	1880	180
15°	1854	1845	1842	1836	1829	524
25°	1766	1752	1738	1715	1703	814
35°	1595	1578	1556	1521	1506	994
45°	1275	1259	1232	1200	1186	981
55°	869	828	792	793	810	779
65°	505	475	461	456	477	503
75°	202	206	213	196	197	222
85°	34	38	37	36	36	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1887.6	1887.6	1887.6	1887.6	1887.6
2.5°	1891.8	1884.2	1888.4	1888.4	1882.5
5°	1890.1	1881.7	1885.1	1883.4	1880.0
7.5°	1885.1	1876.7	1879.2	1877.5	1873.3
10°	1877.5	1868.3	1870.0	1866.7	1860.8
12.5°	1867.5	1859.1	1857.4	1852.4	1848.2
15°	1854.1	1844.9	1842.4	1835.7	1829.0
17.5°	1836.5	1827.3	1823.1	1813.1	1805.6
20°	1818.1	1807.2	1799.7	1784.7	1775.5
22.5°	1794.7	1782.1	1772.1	1751.2	1742.0
25°	1766.2	1752.0	1737.8	1715.2	1702.7
27.5°	1732.8	1717.7	1701.0	1675.9	1661.7
30°	1693.5	1678.4	1659.2	1630.7	1615.6
32.5°	1646.6	1631.5	1611.5	1578.8	1563.8
35°	1594.7	1578.0	1556.2	1521.1	1506.0
37.5°	1532.8	1514.4	1494.3	1455.8	1439.9
40°	1457.5	1441.6	1419.9	1381.4	1363.0
42.5°	1370.5	1356.3	1332.0	1295.2	1277.6
45°	1275.1	1259.2	1231.6	1199.8	1186.4
47.5°	1175.5	1152.1	1125.3	1097.7	1090.2
50°	1076.0	1045.9	1007.4	993.1	995.7
52.5°	973.9	935.4	901.9	891.1	903.6
55°	869.3	827.5	792.3	793.2	809.9
57.5°	769.8	726.2	697.0	697.0	718.7
60°	677.7	637.6	608.3	607.4	635.0
62.5°	592.4	551.4	529.6	529.6	554.7
65°	505.4	475.2	461.0	456.0	476.9
67.5°	425.0	404.1	394.1	388.2	401.6
70°	348.1	334.7	330.5	323.8	333.0
72.5°	271.9	268.6	276.9	261.0	265.2
75°	202.5	205.8	213.4	195.8	196.6
77.5°	145.6	152.3	154.8	146.4	146.4
80°	99.6	107.9	104.6	100.4	98.7
82.5°	63.6	67.8	67.8	65.3	63.6
85°	33.5	38.5	36.8	36.0	36.0
87.5°	12.6	17.6	17.6	16.7	15.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)