

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: P413019

Luminaire Tested: **14PD-55-PC3-L830**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P413019
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-55-PC3-L830
Description: 5500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

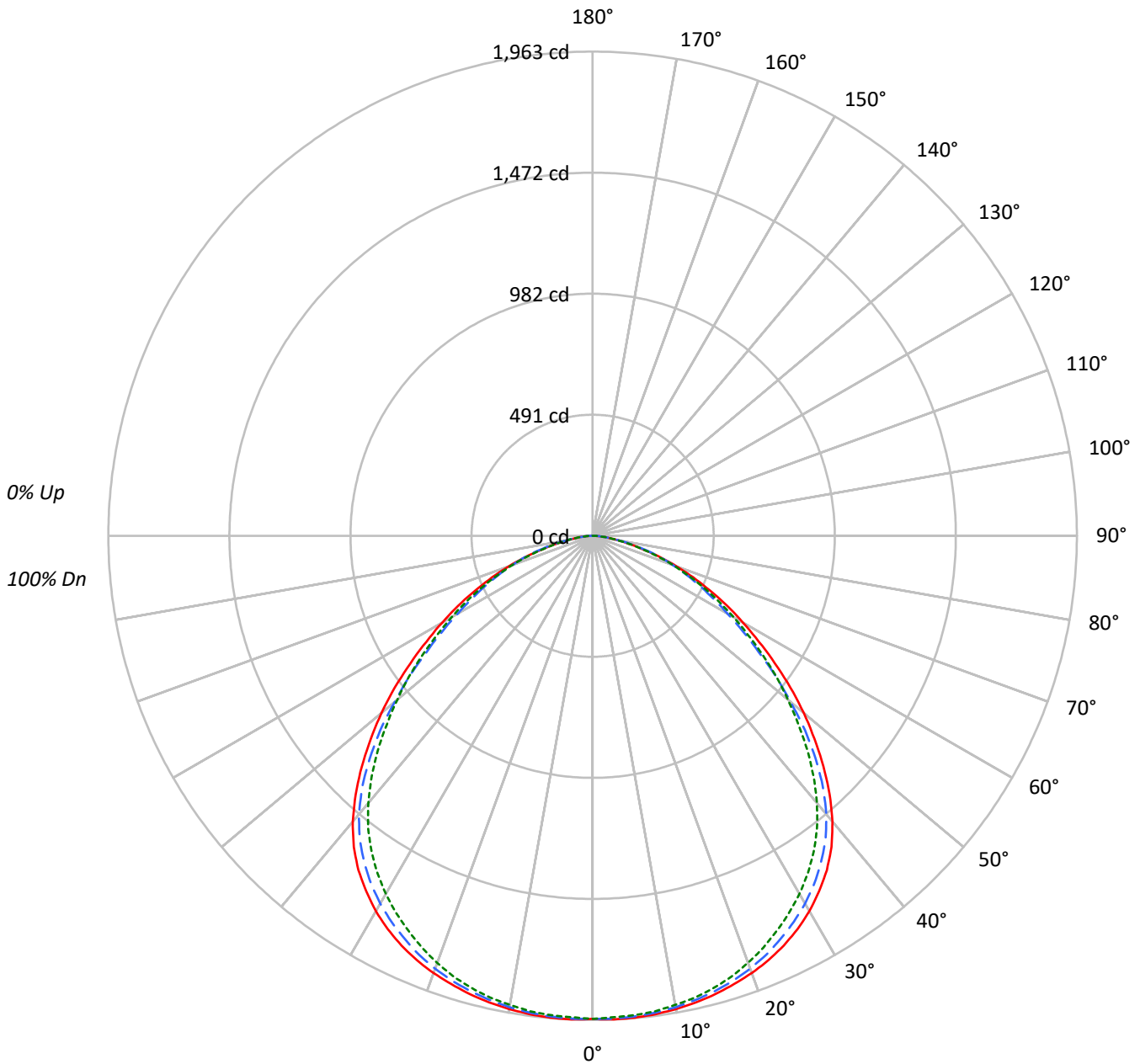
Lumens per Lamp: N/A
Luminaire Lumens: 5062.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54.1
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: P413019

CATALOG NUMBER: 14PD-55-PC3-L830

Luminous Intensity Polar Plot





TEST NUMBER: P413019

CATALOG NUMBER: 14PD-55-PC3-L830

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°	5271	5271	5271
5°	5298	5284	5270
10°	5324	5302	5276
15°	5360	5326	5288
20°	5403	5348	5276
25°	5442	5355	5246
30°	5460	5350	5210
35°	5436	5305	5134
40°	5313	5176	4969
45°	5036	4864	4685
50°	4675	4376	4325
55°	4232	3857	3943
60°	3785	3397	3547
65°	3339	3046	3151
70°	2842	2699	2719
75°	2184	2302	2121
80°	1601	1681	1588
85°	1071	1179	1152



TEST NUMBER: P413019

CATALOG NUMBER: 14PD-55-PC3-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	3.7
10°-20°	539.6	10.7
20°-30°	829.9	16.4
30°-40°	1004.2	19.8
40°-50°	980.4	19.4
50°-60°	757.6	15.0
60°-70°	486.5	9.6
70°-80°	229.6	4.5
80°-90°	48.1	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°	1555.6	30.7
0°-40°	2559.8	50.6
0°-60°	4297.7	84.9
0°-90°	5062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1959	1959	1959	1959	1959	
5°	1961	1953	1956	1954	1951	187
15°	1924	1914	1912	1905	1898	544
25°	1833	1818	1803	1780	1767	845
35°	1655	1638	1615	1578	1563	1032
45°	1323	1307	1278	1245	1231	1018
55°	902	859	822	823	840	809
65°	524	493	478	473	495	522
75°	210	214	221	203	204	231
85°	35	40	38	37	37	45
90°	0	0	0	0	0	



TEST NUMBER: P413019

CATALOG NUMBER: 14PD-55-PC3-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1958.8	1958.8	1958.8	1958.8	1958.8
2.5°	1963.1	1955.3	1959.6	1959.6	1953.6
5°	1961.4	1952.7	1956.2	1954.4	1951.0
7.5°	1956.2	1947.5	1950.1	1948.3	1944.0
10°	1948.3	1938.8	1940.5	1937.1	1931.0
12.5°	1937.9	1929.2	1927.5	1922.3	1918.0
15°	1924.0	1914.5	1911.9	1904.9	1898.0
17.5°	1905.8	1896.3	1891.9	1881.5	1873.7
20°	1886.7	1875.4	1867.6	1852.0	1842.4
22.5°	1862.4	1849.4	1838.9	1817.2	1807.7
25°	1832.9	1818.1	1803.4	1779.9	1766.9
27.5°	1798.1	1782.5	1765.1	1739.1	1724.3
30°	1757.3	1741.7	1721.7	1692.2	1676.6
32.5°	1708.7	1693.1	1672.2	1638.4	1622.8
35°	1654.9	1637.5	1614.9	1578.5	1562.8
37.5°	1590.6	1571.5	1550.7	1510.8	1494.3
40°	1512.5	1496.0	1473.4	1433.5	1414.4
42.5°	1422.2	1407.4	1382.3	1344.0	1325.8
45°	1323.2	1306.7	1278.1	1245.1	1231.2
47.5°	1219.9	1195.6	1167.8	1139.1	1131.3
50°	1116.6	1085.3	1045.4	1030.6	1033.2
52.5°	1010.6	970.7	936.0	924.7	937.7
55°	902.1	858.7	822.2	823.1	840.5
57.5°	798.8	753.6	723.3	723.3	745.8
60°	703.3	661.6	631.2	630.3	659.0
62.5°	614.7	572.2	549.6	549.6	575.6
65°	524.4	493.2	478.4	473.2	494.9
67.5°	441.1	419.4	408.9	402.9	416.8
70°	361.2	347.3	343.0	336.0	345.6
72.5°	282.2	278.7	287.4	270.9	275.2
75°	210.1	213.6	221.4	203.2	204.0
77.5°	151.1	158.0	160.6	151.9	151.9
80°	103.3	112.0	108.5	104.2	102.5
82.5°	66.0	70.3	70.3	67.7	66.0
85°	34.7	39.9	38.2	37.3	37.3
87.5°	13.0	18.2	18.2	17.4	16.5
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)