

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: P413021

Luminaire Tested: **14PD-55-PC3-L840**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P413021
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-L840
Description: 5500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

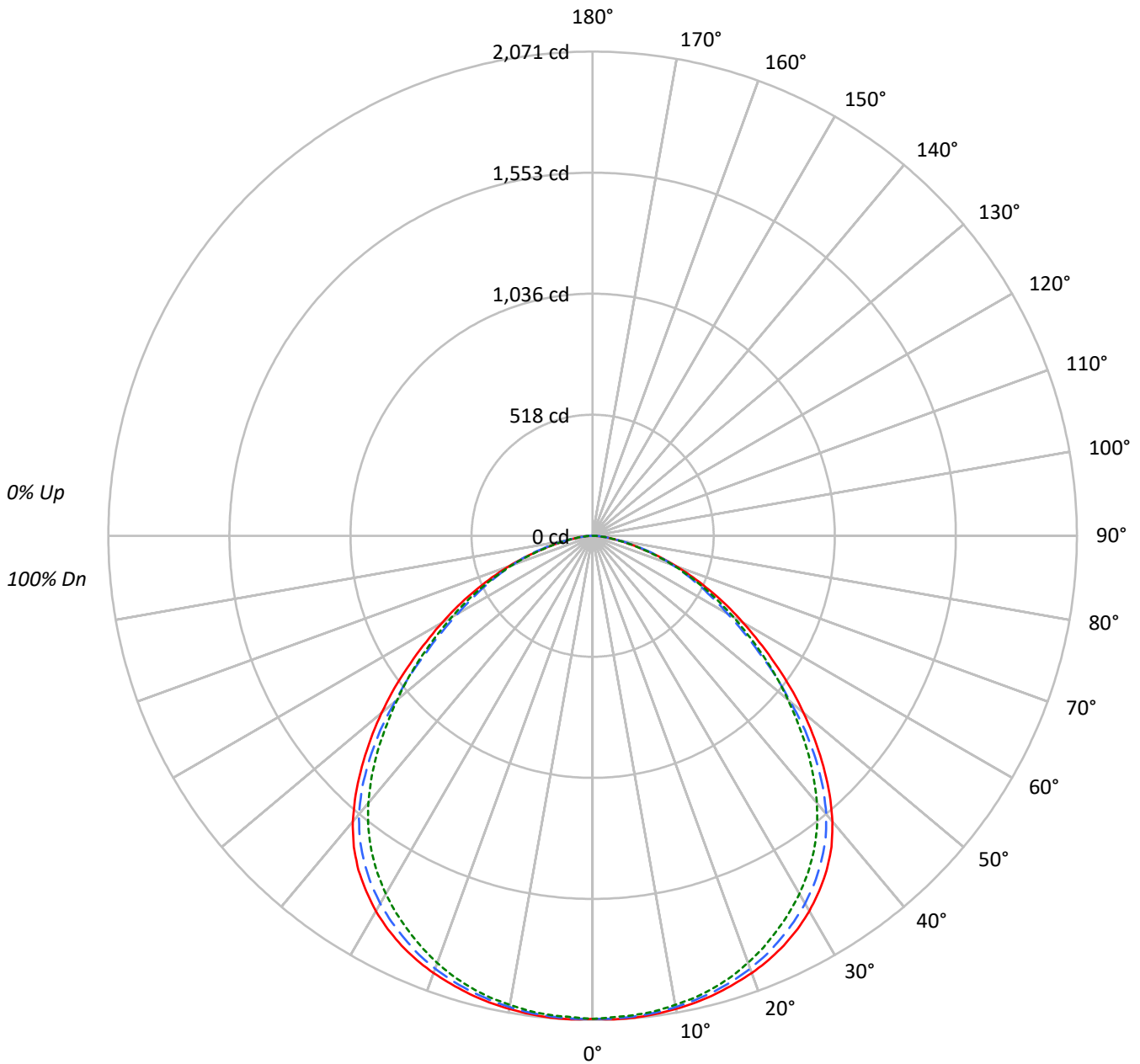
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5340.0 lumens
Efficiency: N/A
Efficacy: 98.7 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

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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°	5560	5560	5560
5°	5589	5574	5559
10°	5616	5594	5566
15°	5655	5619	5578
20°	5700	5642	5566
25°	5741	5649	5534
30°	5760	5644	5496
35°	5735	5596	5416
40°	5605	5460	5241
45°	5312	5131	4943
50°	4931	4617	4563
55°	4465	4069	4160
60°	3993	3584	3742
65°	3522	3214	3324
70°	2998	2847	2868
75°	2305	2429	2237
80°	1689	1774	1675
85°	1130	1244	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	3.7
10°-20°	569.2	10.7
20°-30°	875.5	16.4
30°-40°	1059.3	19.8
40°-50°	1034.2	19.4
50°-60°	799.2	15.0
60°-70°	513.2	9.6
70°-80°	242.2	4.5
80°-90°	50.8	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°	1641.0	30.7
0°-40°	2700.4	50.6
0°-60°	4533.8	84.9
0°-90°	5340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2066	2066	2066	2066	2066	
5°	2069	2060	2064	2062	2058	197
15°	2030	2020	2017	2010	2002	574
25°	1934	1918	1902	1878	1864	891
35°	1746	1727	1704	1665	1649	1089
45°	1396	1378	1348	1313	1299	1074
55°	952	906	867	868	887	853
65°	553	520	505	499	522	551
75°	222	225	234	214	215	243
85°	37	42	40	39	39	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2066.3	2066.3	2066.3	2066.3	2066.3
2.5°	2070.9	2062.7	2067.3	2067.3	2060.8
5°	2069.1	2059.9	2063.6	2061.8	2058.1
7.5°	2063.6	2054.4	2057.2	2055.3	2050.8
10°	2055.3	2045.3	2047.1	2043.4	2037.0
12.5°	2044.4	2035.2	2033.4	2027.9	2023.3
15°	2029.7	2019.6	2016.9	2009.6	2002.2
17.5°	2010.5	2000.4	1995.8	1984.8	1976.6
20°	1990.3	1978.4	1970.2	1953.7	1943.6
22.5°	1964.7	1950.9	1939.9	1917.0	1907.0
25°	1933.5	1918.0	1902.4	1877.7	1863.9
27.5°	1896.9	1880.4	1862.1	1834.6	1819.0
30°	1853.8	1837.4	1816.3	1785.1	1768.7
32.5°	1802.6	1786.1	1764.1	1728.4	1711.9
35°	1745.8	1727.4	1703.6	1665.2	1648.7
37.5°	1678.0	1657.8	1635.9	1593.7	1576.3
40°	1595.6	1578.1	1554.3	1512.2	1492.1
42.5°	1500.3	1484.7	1458.2	1417.9	1398.6
45°	1395.9	1378.5	1348.3	1313.4	1298.8
47.5°	1286.9	1261.2	1231.9	1201.7	1193.5
50°	1177.9	1144.9	1102.8	1087.2	1090.0
52.5°	1066.1	1024.0	987.4	975.5	989.2
55°	951.7	905.9	867.4	868.3	886.6
57.5°	842.7	795.0	763.0	763.0	786.8
60°	741.9	697.9	665.9	665.0	695.2
62.5°	648.5	603.6	579.8	579.8	607.3
65°	553.2	520.2	504.7	499.2	522.1
67.5°	465.3	442.4	431.4	425.0	439.6
70°	381.0	366.4	361.8	354.5	364.5
72.5°	297.7	294.0	303.2	285.8	290.4
75°	221.7	225.3	233.6	214.3	215.2
77.5°	159.4	166.7	169.4	160.3	160.3
80°	109.0	118.2	114.5	109.9	108.1
82.5°	69.6	74.2	74.2	71.4	69.6
85°	36.6	42.1	40.3	39.4	39.4
87.5°	13.7	19.2	19.2	18.3	17.4
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)