

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: P413022

Luminaire Tested: **14PD-55-PC3-L850**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P413022
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-L850
Description: 5500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

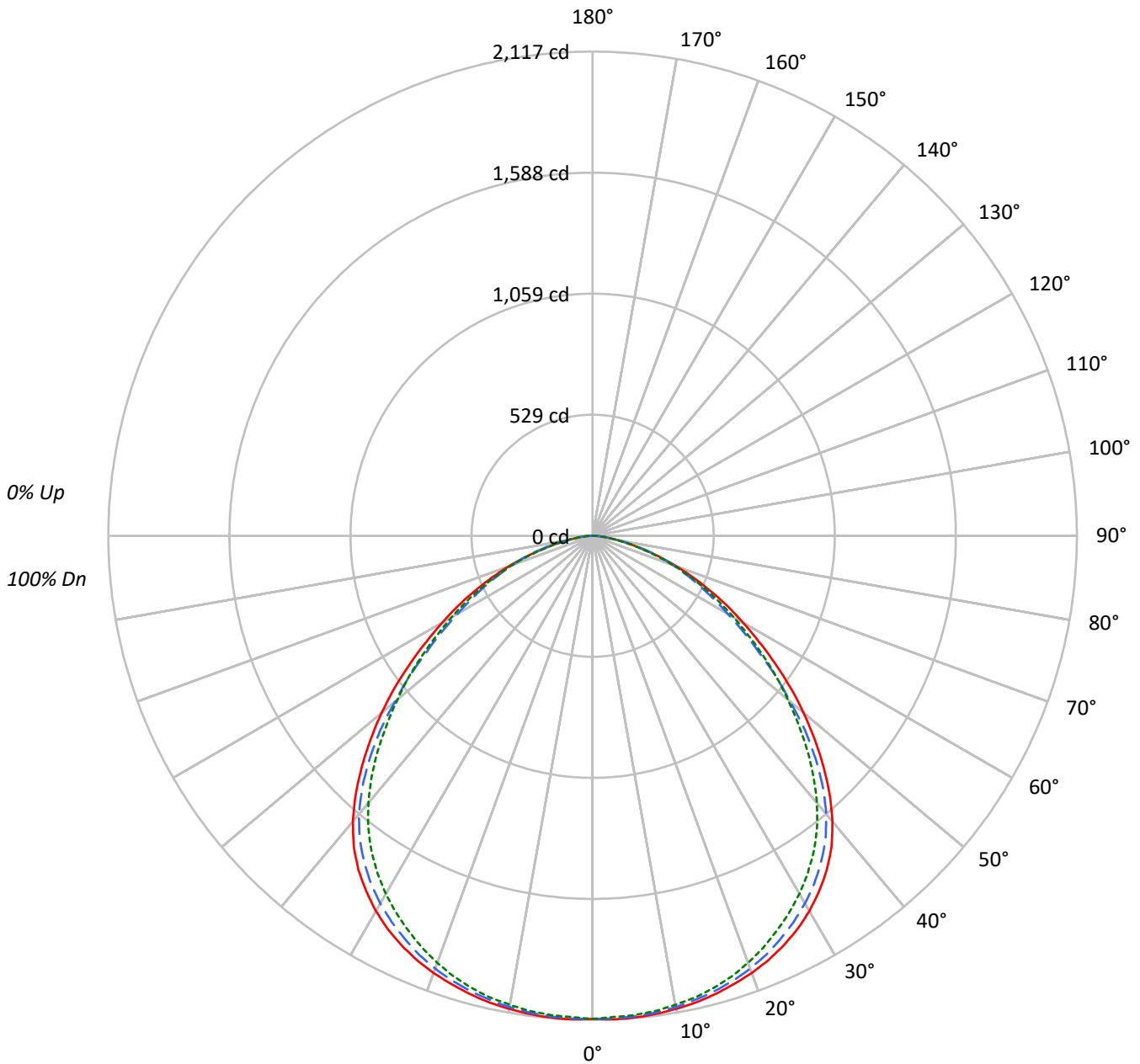
Lumens per Lamp: N/A
Luminaire Lumens: 5458.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	5683	5683	5683
5°	5713	5697	5682
10°	5740	5717	5689
15°	5780	5743	5701
20°	5826	5767	5689
25°	5868	5773	5657
30°	5888	5768	5617
35°	5862	5720	5536
40°	5729	5581	5357
45°	5429	5244	5052
50°	5040	4719	4664
55°	4563	4160	4252
60°	4081	3663	3824
65°	3600	3284	3398
70°	3064	2910	2932
75°	2356	2482	2287
80°	1726	1813	1712
85°	1155	1272	1244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	3.7
10°-20°	581.8	10.7
20°-30°	894.8	16.4
30°-40°	1082.7	19.8
40°-50°	1057.1	19.4
50°-60°	816.8	15.0
60°-70°	524.6	9.6
70°-80°	247.6	4.5
80°-90°	51.9	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°	1677.3	30.7
0°-40°	2760.0	50.6
0°-60°	4633.9	84.9
0°-90°	5458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2115	2105	2109	2107	2104	201
15°	2075	2064	2061	2054	2046	586
25°	1976	1960	1944	1919	1905	911
35°	1784	1766	1741	1702	1685	1113
45°	1427	1409	1378	1342	1328	1098
55°	973	926	887	888	906	872
65°	565	532	516	510	534	563
75°	227	230	239	219	220	249
85°	37	43	41	40	40	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2112.0	2112.0	2112.0	2112.0	2112.0
2.5°	2116.7	2108.3	2112.9	2112.9	2106.4
5°	2114.8	2105.4	2109.2	2107.3	2103.6
7.5°	2109.2	2099.8	2102.6	2100.8	2096.1
10°	2100.8	2090.5	2092.3	2088.6	2082.0
12.5°	2089.5	2080.2	2078.3	2072.7	2068.0
15°	2074.6	2064.3	2061.4	2054.0	2046.5
17.5°	2054.9	2044.6	2039.9	2028.7	2020.3
20°	2034.3	2022.1	2013.7	1996.9	1986.6
22.5°	2008.1	1994.0	1982.8	1959.4	1949.1
25°	1976.3	1960.3	1944.4	1919.2	1905.1
27.5°	1938.8	1922.0	1903.2	1875.2	1859.2
30°	1894.8	1878.0	1856.4	1824.6	1807.7
32.5°	1842.4	1825.5	1803.1	1766.6	1749.7
35°	1784.3	1765.6	1741.3	1702.0	1685.1
37.5°	1715.1	1694.5	1672.0	1628.9	1611.1
40°	1630.8	1613.0	1588.7	1545.6	1525.0
42.5°	1533.4	1517.5	1490.4	1449.2	1429.5
45°	1426.7	1408.9	1378.0	1342.5	1327.5
47.5°	1315.3	1289.1	1259.1	1228.3	1219.8
50°	1203.9	1170.2	1127.1	1111.2	1114.0
52.5°	1089.7	1046.6	1009.2	997.0	1011.1
55°	972.7	925.9	886.6	887.5	906.2
57.5°	861.3	812.6	779.8	779.8	804.2
60°	758.3	713.4	680.6	679.7	710.6
62.5°	662.8	616.9	592.6	592.6	620.7
65°	565.4	531.7	515.8	510.2	533.6
67.5°	475.6	452.2	440.9	434.4	449.4
70°	389.4	374.5	369.8	362.3	372.6
72.5°	304.3	300.5	309.9	292.1	296.8
75°	226.6	230.3	238.7	219.1	220.0
77.5°	162.9	170.4	173.2	163.8	163.8
80°	111.4	120.8	117.0	112.3	110.5
82.5°	71.1	75.8	75.8	73.0	71.1
85°	37.4	43.1	41.2	40.3	40.3
87.5°	14.0	19.7	19.7	18.7	17.8
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)