

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: P412327

Luminaire Tested: **14PD-50-PB1-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-56)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-50-PB1-L835
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

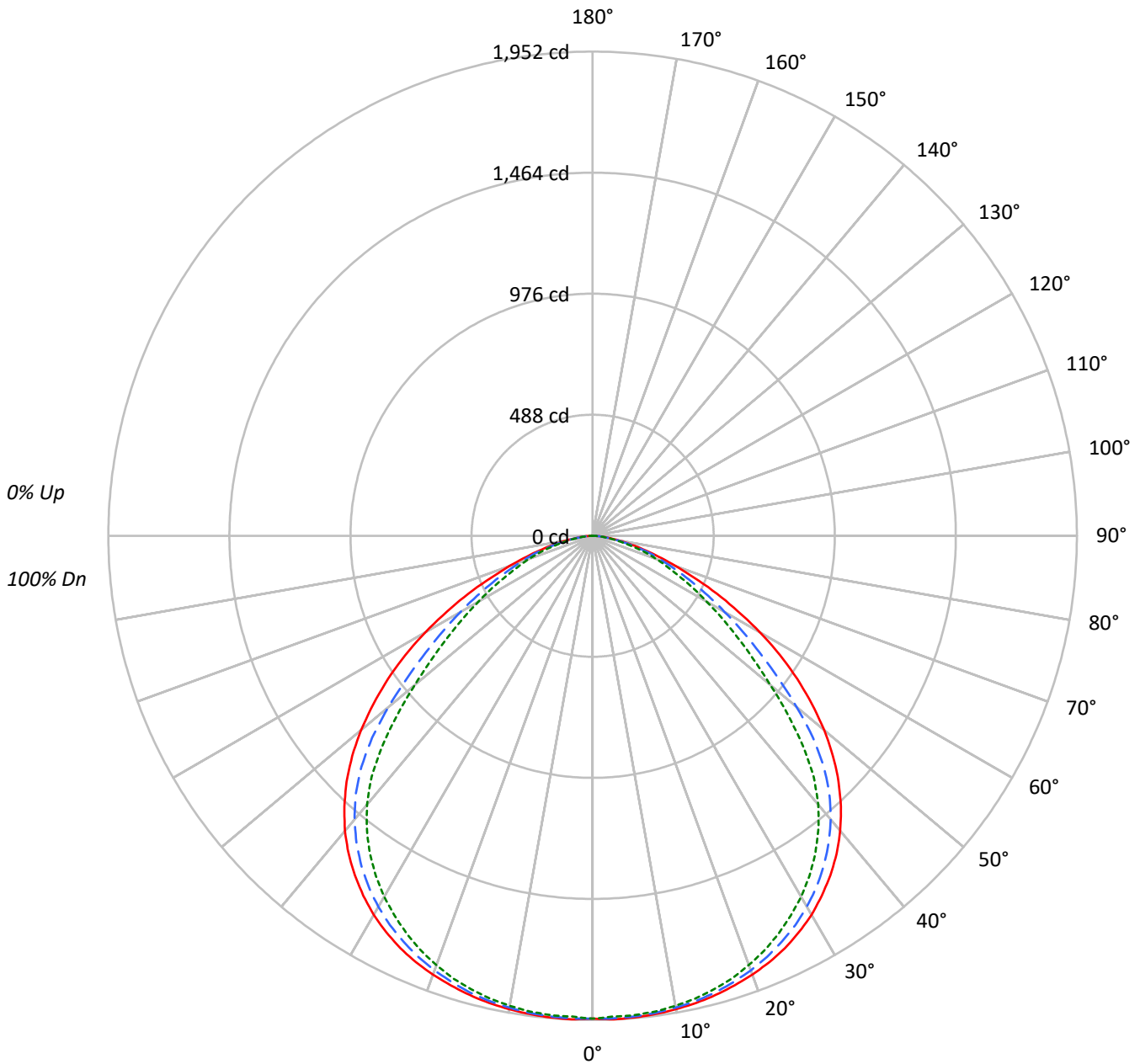
Lumens per Lamp: N/A
Luminaire Lumens: 5018.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74																			
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63																			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33																			
9	59	46	38	32	57	45	37	32	44	37	32	43	37	32	42	36	32	30																			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5239	5239	5239
5°	5265	5254	5240
10°	5297	5278	5258
15°	5340	5312	5273
20°	5391	5339	5274
25°	5446	5360	5258
30°	5482	5366	5221
35°	5487	5337	5140
40°	5455	5244	4969
45°	5336	5016	4563
50°	5099	4493	3911
55°	4723	3852	3340
60°	4194	3307	2855
65°	3521	2821	2444
70°	2791	2397	2155
75°	2181	1957	1714
80°	1626	1458	1316
85°	1081	951	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	3.7
10°-20°	537.9	10.7
20°-30°	830.7	16.6
30°-40°	1011.0	20.1
40°-50°	1000.5	19.9
50°-60°	753.8	15.0
60°-70°	452.9	9.0
70°-80°	204.2	4.1
80°-90°	41.8	0.8
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°	1553.8	31.0
0°-40°	2564.8	51.1
0°-60°	4319.1	86.1
0°-90°	5018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1947	1947	1947	1947	1947	
5°	1949	1942	1945	1943	1940	186
15°	1917	1908	1907	1899	1893	542
25°	1834	1820	1805	1781	1771	845
35°	1670	1652	1624	1584	1564	1044
45°	1402	1378	1318	1237	1199	1077
55°	1007	936	821	741	712	897
65°	553	501	443	396	384	549
75°	210	199	188	171	165	229
85°	35	36	31	29	28	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1946.7	1946.7	1946.7	1946.7	1946.7
2.5°	1951.7	1943.4	1947.5	1946.7	1940.0
5°	1949.2	1941.7	1945.0	1943.4	1940.0
7.5°	1945.0	1937.5	1940.0	1937.5	1934.2
10°	1938.4	1930.0	1931.7	1926.7	1924.2
12.5°	1929.2	1919.2	1920.9	1914.2	1910.9
15°	1916.7	1907.6	1906.7	1899.2	1892.6
17.5°	1900.9	1891.7	1886.7	1878.4	1870.9
20°	1882.6	1870.9	1864.3	1849.3	1841.8
22.5°	1860.9	1848.4	1837.6	1816.8	1809.3
25°	1834.3	1820.1	1805.1	1781.0	1771.0
27.5°	1801.8	1786.8	1769.3	1742.7	1727.7
30°	1764.3	1748.5	1726.9	1696.1	1680.2
32.5°	1720.2	1702.7	1679.4	1642.8	1626.1
35°	1670.3	1651.9	1624.5	1584.5	1564.5
37.5°	1616.1	1595.3	1562.8	1514.6	1494.6
40°	1552.9	1532.0	1492.9	1437.1	1414.6
42.5°	1481.2	1460.4	1413.0	1346.4	1318.9
45°	1402.1	1378.0	1318.1	1237.3	1199.0
47.5°	1313.9	1283.1	1204.8	1105.7	1067.4
50°	1218.1	1177.3	1073.3	971.7	934.2
52.5°	1114.1	1062.4	942.5	851.8	816.0
55°	1006.6	935.9	821.0	741.0	711.9
57.5°	895.1	810.1	714.4	644.5	617.0
60°	779.3	696.9	614.5	550.4	530.4
62.5°	661.1	593.7	525.4	466.3	455.4
65°	552.9	501.2	443.0	396.3	383.8
67.5°	443.8	414.6	369.7	338.0	323.9
70°	354.7	335.5	304.7	278.9	273.9
72.5°	277.3	264.8	253.1	230.6	221.5
75°	209.8	199.0	188.2	170.7	164.9
77.5°	151.5	147.4	138.2	126.6	124.1
80°	104.9	104.9	94.1	87.4	84.9
82.5°	64.9	70.8	59.1	55.0	52.5
85°	35.0	35.8	30.8	29.1	28.3
87.5°	13.3	15.0	14.2	11.7	11.7
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)