

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: P412330

Luminaire Tested: **14PD-50-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412330
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-L927
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

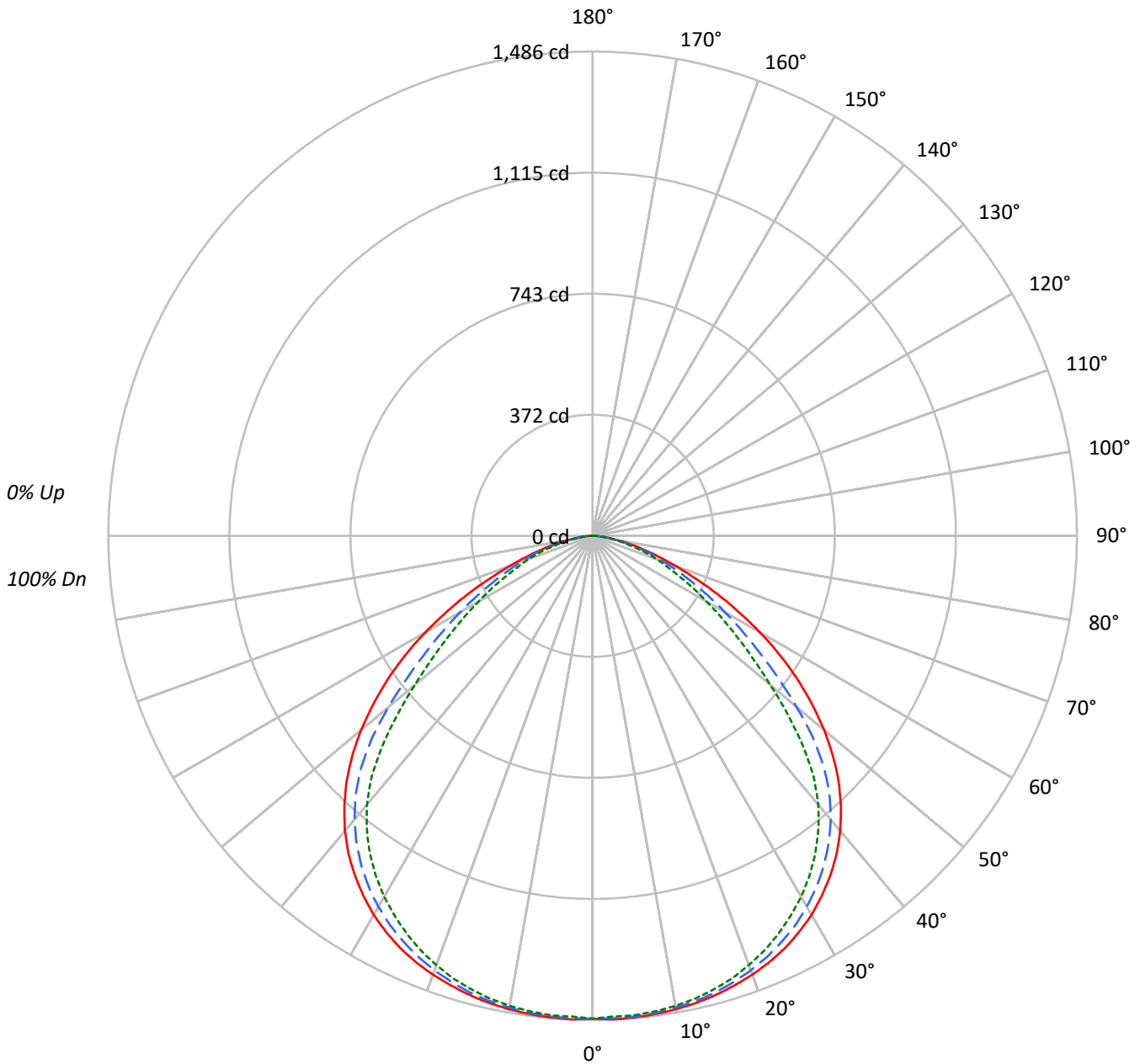
Lumens per Lamp: N/A
Luminaire Lumens: 3820.0 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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				20				
RC	80				70				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°	3988	3988	3988
5°	4008	4000	3989
10°	4032	4018	4003
15°	4065	4044	4014
20°	4104	4064	4015
25°	4146	4080	4003
30°	4173	4085	3975
35°	4177	4062	3913
40°	4153	3992	3783
45°	4062	3819	3473
50°	3882	3420	2977
55°	3595	2932	2542
60°	3193	2518	2173
65°	2680	2147	1861
70°	2124	1825	1640
75°	1660	1489	1305
80°	1238	1110	1003
85°	821	726	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	3.7
10°-20°	409.5	10.7
20°-30°	632.4	16.6
30°-40°	769.7	20.1
40°-50°	761.6	19.9
50°-60°	573.8	15.0
60°-70°	344.8	9.0
70°-80°	155.4	4.1
80°-90°	31.8	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°	1182.8	31.0
0°-40°	1952.5	51.1
0°-60°	3287.9	86.1
0°-90°	3820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1484	1478	1481	1479	1477	141
15°	1459	1452	1452	1446	1441	412
25°	1396	1386	1374	1356	1348	644
35°	1272	1258	1237	1206	1191	795
45°	1067	1049	1003	942	913	820
55°	766	712	625	564	542	683
65°	421	382	337	302	292	418
75°	160	152	143	130	126	174
85°	27	27	24	22	22	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1481.9	1481.9	1481.9	1481.9	1481.9
2.5°	1485.7	1479.4	1482.6	1481.9	1476.9
5°	1483.8	1478.1	1480.7	1479.4	1476.9
7.5°	1480.7	1475.0	1476.9	1475.0	1472.4
10°	1475.6	1469.3	1470.5	1466.7	1464.8
12.5°	1468.6	1461.0	1462.3	1457.2	1454.7
15°	1459.1	1452.1	1451.5	1445.8	1440.7
17.5°	1447.1	1440.1	1436.3	1430.0	1424.3
20°	1433.1	1424.3	1419.2	1407.8	1402.1
22.5°	1416.6	1407.1	1398.9	1383.1	1377.3
25°	1396.4	1385.6	1374.2	1355.8	1348.2
27.5°	1371.6	1360.2	1346.9	1326.6	1315.2
30°	1343.1	1331.1	1314.6	1291.1	1279.1
32.5°	1309.5	1296.2	1278.5	1250.6	1237.9
35°	1271.5	1257.6	1236.6	1206.2	1191.0
37.5°	1230.3	1214.5	1189.7	1153.0	1137.8
40°	1182.1	1166.3	1136.5	1094.0	1076.9
42.5°	1127.6	1111.8	1075.6	1024.9	1004.0
45°	1067.4	1049.0	1003.4	941.9	912.7
47.5°	1000.2	976.8	917.2	841.7	812.6
50°	927.3	896.3	817.0	739.7	711.2
52.5°	848.1	808.8	717.5	648.4	621.2
55°	766.3	712.4	625.0	564.1	541.9
57.5°	681.4	616.7	543.8	490.6	469.7
60°	593.3	530.5	467.8	419.0	403.8
62.5°	503.3	451.9	400.0	355.0	346.7
65°	420.9	381.6	337.2	301.7	292.2
67.5°	337.8	315.7	281.4	257.3	246.6
70°	270.0	255.4	232.0	212.3	208.5
72.5°	211.1	201.6	192.7	175.6	168.6
75°	159.7	151.5	143.2	129.9	125.5
77.5°	115.4	112.2	105.2	96.3	94.4
80°	79.9	79.9	71.6	66.6	64.7
82.5°	49.4	53.9	45.0	41.8	39.9
85°	26.6	27.3	23.5	22.2	21.6
87.5°	10.1	11.4	10.8	8.9	8.9
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)