

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: P412332

Luminaire Tested: **14PD-50-PB1-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412332
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-L935
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

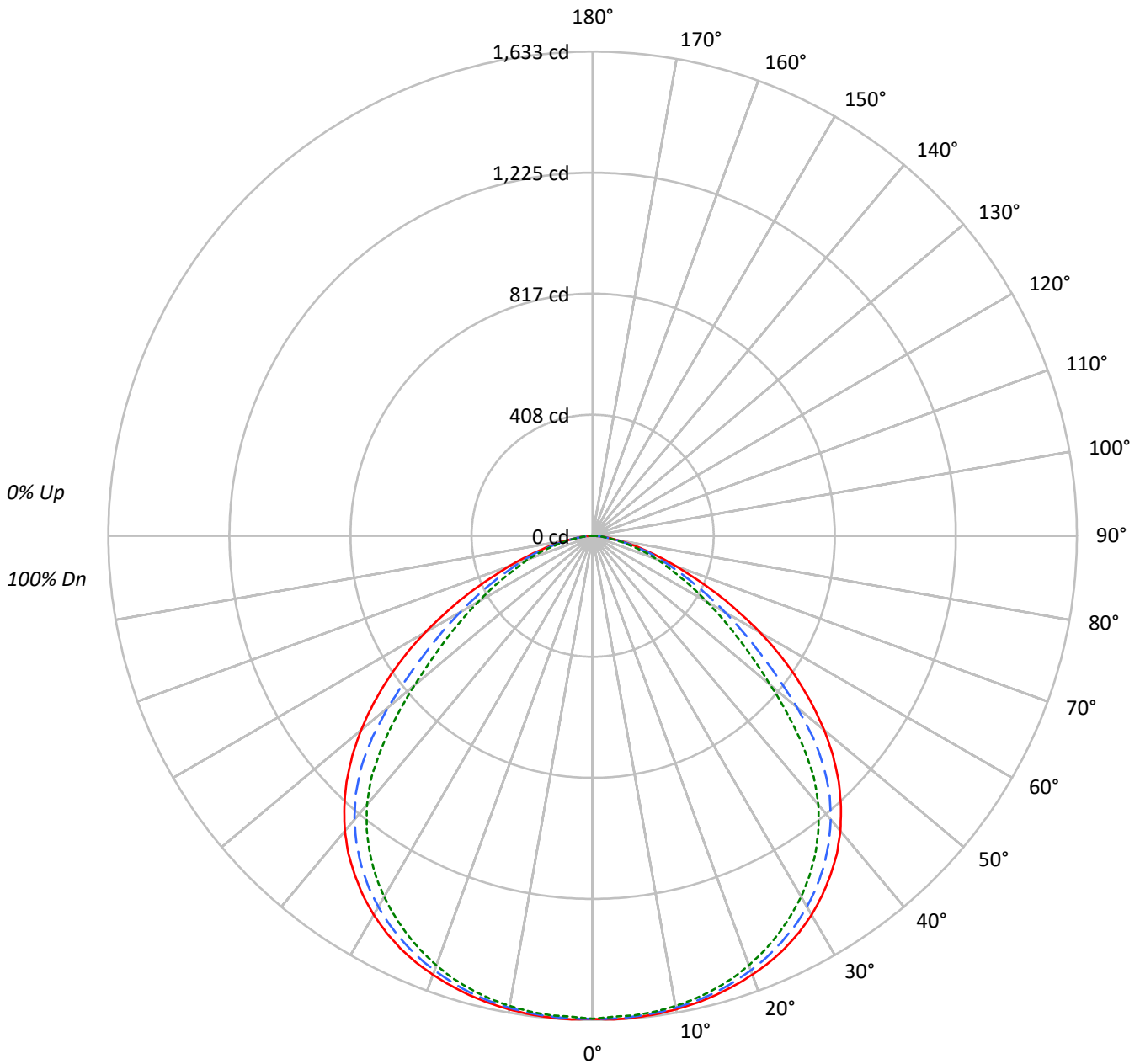
Lumens per Lamp: N/A
Luminaire Lumens: 4199.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P412332

CATALOG NUMBER: 14PD-50-PB1-L935

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63				63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55				55
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48				48
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	37	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4384	4384	4384
5°	4406	4397	4385
10°	4432	4417	4400
15°	4468	4445	4412
20°	4511	4467	4414
25°	4557	4485	4400
30°	4588	4490	4369
35°	4591	4465	4301
40°	4565	4388	4158
45°	4465	4197	3818
50°	4267	3760	3273
55°	3952	3223	2795
60°	3510	2767	2389
65°	2946	2360	2045
70°	2335	2006	1803
75°	1826	1638	1435
80°	1361	1220	1102
85°	905	797	732



TEST NUMBER: P412332

CATALOG NUMBER: 14PD-50-PB1-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	3.7
10°-20°	450.1	10.7
20°-30°	695.1	16.6
30°-40°	846.0	20.1
40°-50°	837.2	19.9
50°-60°	630.8	15.0
60°-70°	379.0	9.0
70°-80°	170.8	4.1
80°-90°	35.0	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°	1300.2	31.0
0°-40°	2146.2	51.1
0°-60°	3614.2	86.1
0°-90°	4199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1631	1625	1628	1626	1623	155
15°	1604	1596	1596	1589	1584	453
25°	1535	1523	1510	1490	1482	707
35°	1398	1382	1359	1326	1309	874
45°	1173	1153	1103	1035	1003	902
55°	842	783	687	620	596	750
65°	463	419	371	332	321	460
75°	176	166	158	143	138	191
85°	29	30	26	24	24	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1629.0	1629.0	1629.0	1629.0	1629.0
2.5°	1633.1	1626.2	1629.7	1629.0	1623.4
5°	1631.1	1624.8	1627.6	1626.2	1623.4
7.5°	1627.6	1621.3	1623.4	1621.3	1618.5
10°	1622.0	1615.0	1616.4	1612.2	1610.2
12.5°	1614.3	1606.0	1607.4	1601.8	1599.0
15°	1603.9	1596.2	1595.5	1589.2	1583.7
17.5°	1590.6	1583.0	1578.8	1571.8	1565.6
20°	1575.3	1565.6	1560.0	1547.4	1541.2
22.5°	1557.2	1546.7	1537.7	1520.3	1514.0
25°	1534.9	1523.1	1510.5	1490.3	1482.0
27.5°	1507.7	1495.2	1480.6	1458.3	1445.7
30°	1476.4	1463.1	1445.0	1419.2	1406.0
32.5°	1439.5	1424.8	1405.3	1374.7	1360.7
35°	1397.6	1382.3	1359.3	1325.9	1309.2
37.5°	1352.4	1334.9	1307.8	1267.4	1250.6
40°	1299.4	1282.0	1249.2	1202.6	1183.8
42.5°	1239.5	1222.1	1182.4	1126.6	1103.6
45°	1173.3	1153.1	1102.9	1035.3	1003.3
47.5°	1099.4	1073.7	1008.2	925.3	893.2
50°	1019.3	985.2	898.1	813.1	781.7
52.5°	932.2	889.0	788.7	712.8	682.8
55°	842.4	783.1	687.0	620.1	595.7
57.5°	749.0	677.9	597.8	539.3	516.3
60°	652.1	583.2	514.2	460.5	443.8
62.5°	553.2	496.8	439.6	390.2	381.1
65°	462.6	419.4	370.7	331.6	321.2
67.5°	371.4	347.0	309.3	282.9	271.0
70°	296.8	280.8	255.0	233.4	229.2
72.5°	232.0	221.6	211.8	193.0	185.3
75°	175.6	166.5	157.5	142.8	138.0
77.5°	126.8	123.3	115.7	105.9	103.8
80°	87.8	87.8	78.7	73.2	71.1
82.5°	54.3	59.2	49.5	46.0	43.9
85°	29.3	30.0	25.8	24.4	23.7
87.5°	11.1	12.5	11.8	9.8	9.8
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)