

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: P412325

Luminaire Tested: **14PD-45-PB1-L950**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412325
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-45-PB1-L950
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

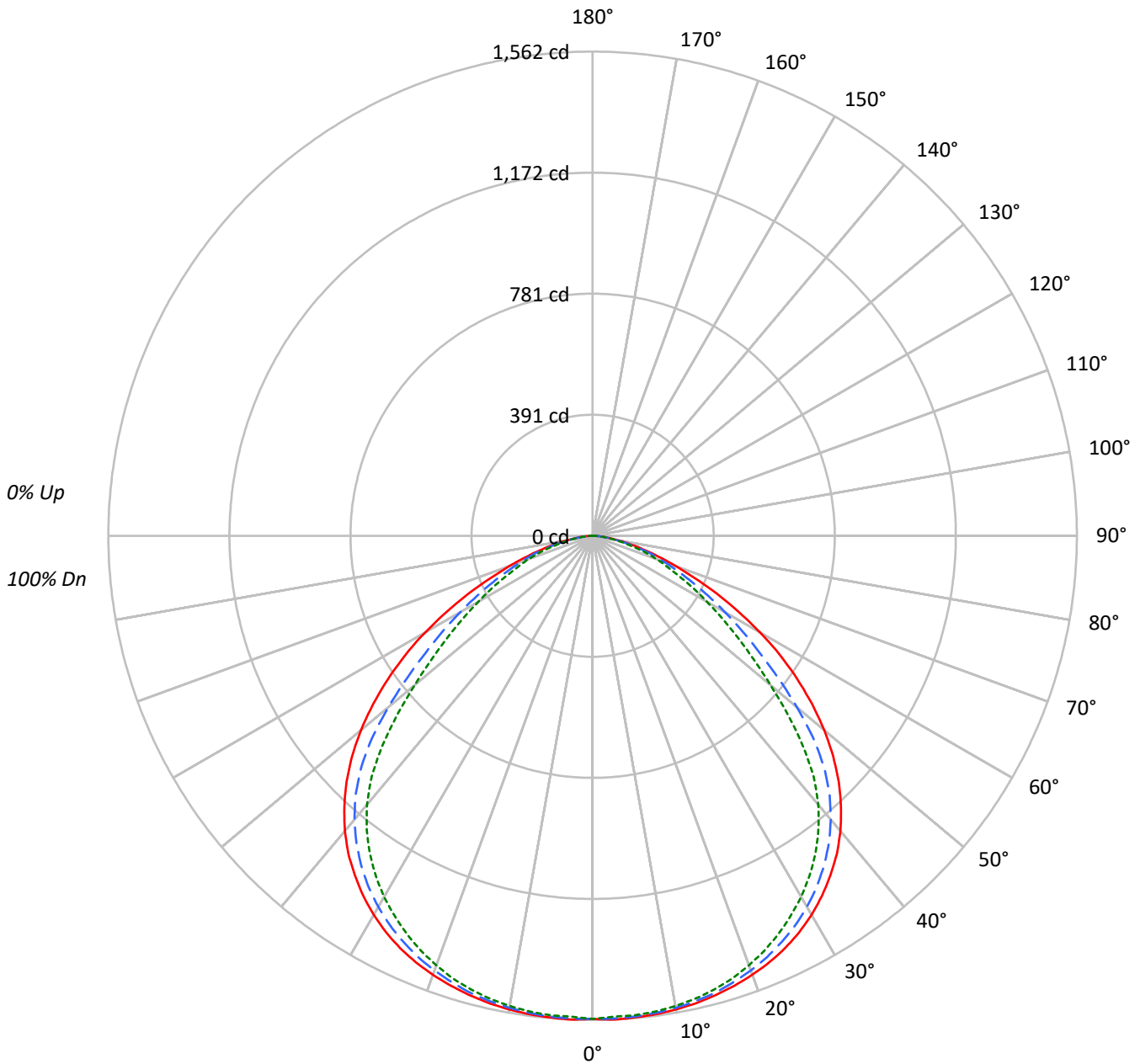
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4017.0 lumens
Efficiency: N/A
Efficacy: 93.6 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): 42.9
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°	4194	4194	4194
5°	4215	4206	4195
10°	4240	4226	4209
15°	4275	4252	4221
20°	4316	4274	4222
25°	4360	4290	4209
30°	4389	4295	4180
35°	4392	4272	4114
40°	4367	4198	3978
45°	4271	4015	3653
50°	4082	3597	3131
55°	3780	3083	2674
60°	3358	2647	2285
65°	2818	2258	1957
70°	2234	1920	1725
75°	1747	1566	1372
80°	1302	1167	1054
85°	865	763	701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	3.7
10°-20°	430.6	10.7
20°-30°	665.0	16.6
30°-40°	809.3	20.1
40°-50°	800.9	19.9
50°-60°	603.4	15.0
60°-70°	362.6	9.0
70°-80°	163.4	4.1
80°-90°	33.5	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°	1243.8	31.0
0°-40°	2053.2	51.1
0°-60°	3457.5	86.1
0°-90°	4017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1560	1554	1557	1556	1553	149
15°	1534	1527	1526	1520	1515	434
25°	1468	1457	1445	1426	1418	677
35°	1337	1322	1300	1268	1252	836
45°	1122	1103	1055	990	960	862
55°	806	749	657	593	570	718
65°	443	401	355	317	307	440
75°	168	159	151	137	132	183
85°	28	29	25	23	23	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1558.4	1558.4	1558.4	1558.4	1558.4
2.5°	1562.4	1555.7	1559.0	1558.4	1553.0
5°	1560.4	1554.4	1557.0	1555.7	1553.0
7.5°	1557.0	1551.0	1553.0	1551.0	1548.4
10°	1551.7	1545.0	1546.4	1542.4	1540.4
12.5°	1544.4	1536.4	1537.7	1532.4	1529.7
15°	1534.4	1527.0	1526.4	1520.4	1515.0
17.5°	1521.7	1514.4	1510.4	1503.7	1497.7
20°	1507.0	1497.7	1492.4	1480.4	1474.4
22.5°	1489.7	1479.7	1471.0	1454.4	1448.4
25°	1468.4	1457.0	1445.0	1425.7	1417.7
27.5°	1442.4	1430.4	1416.4	1395.1	1383.1
30°	1412.4	1399.7	1382.4	1357.7	1345.1
32.5°	1377.1	1363.1	1344.4	1315.1	1301.7
35°	1337.1	1322.4	1300.4	1268.4	1252.4
37.5°	1293.7	1277.1	1251.1	1212.4	1196.4
40°	1243.1	1226.4	1195.1	1150.4	1132.4
42.5°	1185.8	1169.1	1131.1	1077.8	1055.8
45°	1122.4	1103.1	1055.1	990.5	959.8
47.5°	1051.8	1027.1	964.5	885.2	854.5
50°	975.1	942.5	859.2	777.8	747.9
52.5°	891.8	850.5	754.5	681.9	653.2
55°	805.8	749.2	657.2	593.2	569.9
57.5°	716.5	648.5	571.9	515.9	493.9
60°	623.9	557.9	491.9	440.6	424.6
62.5°	529.2	475.2	420.6	373.3	364.6
65°	442.6	401.3	354.6	317.3	307.3
67.5°	355.3	331.9	295.9	270.6	259.3
70°	283.9	268.6	244.0	223.3	219.3
72.5°	222.0	212.0	202.6	184.6	177.3
75°	168.0	159.3	150.6	136.6	132.0
77.5°	121.3	118.0	110.6	101.3	99.3
80°	84.0	84.0	75.3	70.0	68.0
82.5°	52.0	56.7	47.3	44.0	42.0
85°	28.0	28.7	24.7	23.3	22.7
87.5°	10.7	12.0	11.3	9.3	9.3
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)