

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: P413003

Luminaire Tested: **14PD-45-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413003
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-45-PC3-L840
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

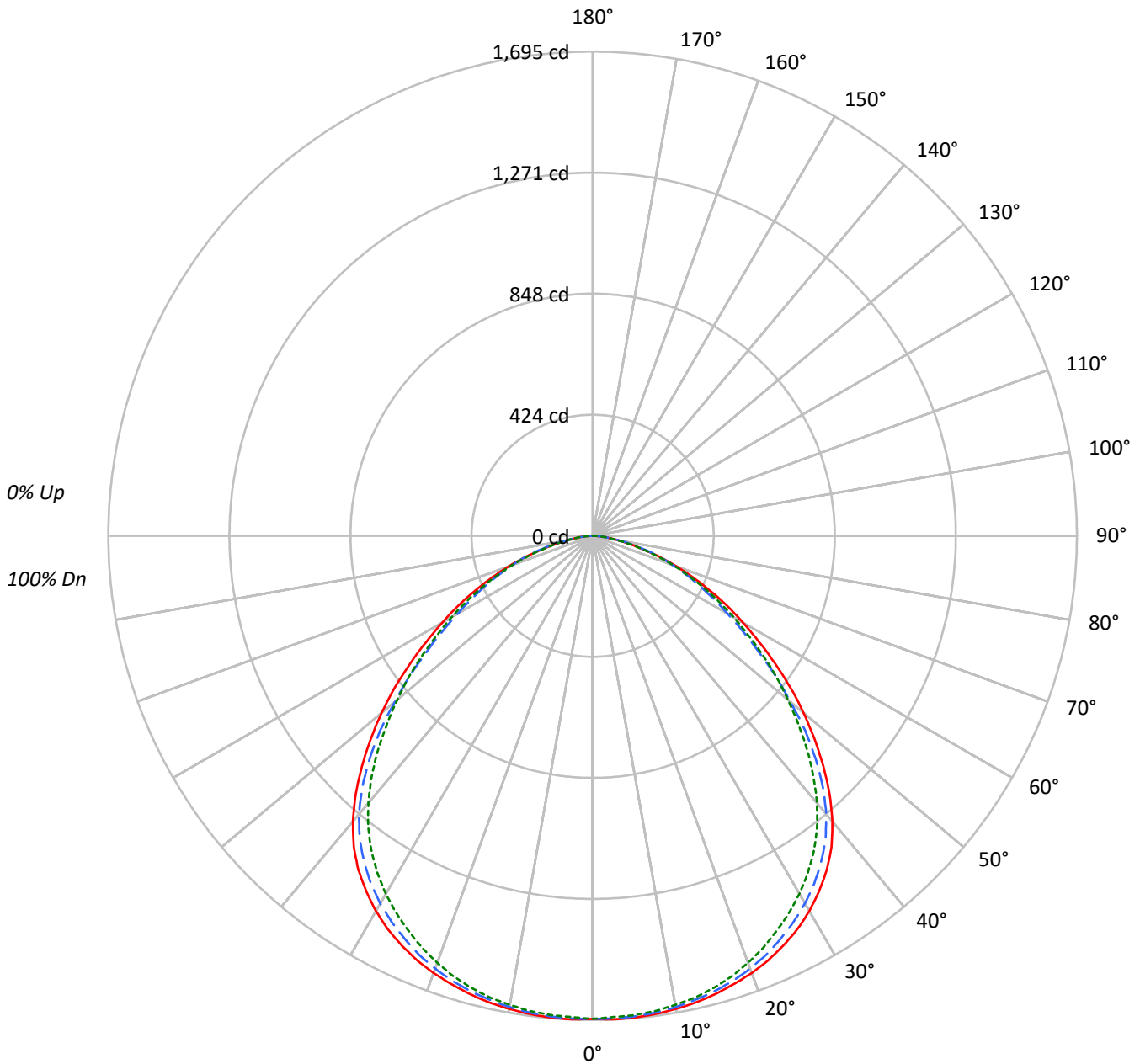
Lumens per Lamp: N/A
Luminaire Lumens: 4370.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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°	4550	4550	4550
5°	4574	4562	4549
10°	4596	4578	4555
15°	4627	4598	4565
20°	4664	4617	4555
25°	4698	4622	4529
30°	4714	4619	4497
35°	4693	4580	4432
40°	4587	4468	4289
45°	4347	4199	4045
50°	4035	3778	3734
55°	3654	3330	3404
60°	3267	2933	3062
65°	2883	2630	2720
70°	2453	2330	2347
75°	1886	1987	1831
80°	1382	1452	1370
85°	926	1019	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.7	3.7
10°-20°	465.8	10.7
20°-30°	716.4	16.4
30°-40°	866.9	19.8
40°-50°	846.4	19.4
50°-60°	654.0	15.0
60°-70°	420.0	9.6
70°-80°	198.2	4.5
80°-90°	41.6	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°	1342.9	30.7
0°-40°	2209.9	50.6
0°-60°	3710.2	84.9
0°-90°	4370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1693	1686	1689	1687	1684	161
15°	1661	1653	1650	1644	1638	469
25°	1582	1570	1557	1537	1525	729
35°	1429	1414	1394	1363	1349	891
45°	1142	1128	1103	1075	1063	879
55°	779	741	710	711	726	698
65°	453	426	413	408	427	451
75°	181	184	191	175	176	199
85°	30	34	33	32	32	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1691.0	1691.0	1691.0	1691.0	1691.0
2.5°	1694.7	1688.0	1691.7	1691.7	1686.5
5°	1693.2	1685.7	1688.7	1687.2	1684.2
7.5°	1688.7	1681.2	1683.5	1682.0	1678.3
10°	1682.0	1673.8	1675.3	1672.3	1667.0
12.5°	1673.0	1665.5	1664.0	1659.5	1655.8
15°	1661.0	1652.8	1650.5	1644.5	1638.5
17.5°	1645.3	1637.0	1633.3	1624.3	1617.5
20°	1628.8	1619.0	1612.3	1598.8	1590.6
22.5°	1607.8	1596.6	1587.6	1568.8	1560.6
25°	1582.3	1569.6	1556.8	1536.6	1525.3
27.5°	1552.3	1538.8	1523.8	1501.4	1488.6
30°	1517.1	1503.6	1486.4	1460.9	1447.4
32.5°	1475.1	1461.6	1443.6	1414.4	1400.9
35°	1428.7	1413.7	1394.2	1362.7	1349.2
37.5°	1373.2	1356.7	1338.7	1304.2	1290.0
40°	1305.7	1291.5	1272.0	1237.5	1221.0
42.5°	1227.8	1215.0	1193.3	1160.3	1144.6
45°	1142.3	1128.1	1103.3	1074.9	1062.9
47.5°	1053.1	1032.1	1008.2	983.4	976.7
50°	963.9	936.9	902.5	889.7	892.0
52.5°	872.5	838.0	808.0	798.3	809.5
55°	778.8	741.3	709.8	710.6	725.6
57.5°	689.6	650.6	624.4	624.4	643.9
60°	607.1	571.2	544.9	544.2	568.9
62.5°	530.7	494.0	474.5	474.5	497.0
65°	452.7	425.7	413.0	408.5	427.2
67.5°	380.8	362.0	353.0	347.8	359.8
70°	311.8	299.8	296.1	290.1	298.3
72.5°	243.6	240.6	248.1	233.9	237.6
75°	181.4	184.4	191.1	175.4	176.1
77.5°	130.4	136.4	138.7	131.2	131.2
80°	89.2	96.7	93.7	89.9	88.4
82.5°	57.0	60.7	60.7	58.5	57.0
85°	30.0	34.5	33.0	32.2	32.2
87.5°	11.2	15.7	15.7	15.0	14.2
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)