

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: P413004

Luminaire Tested: **14PD-45-PC3-L850**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P413004
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-L850
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

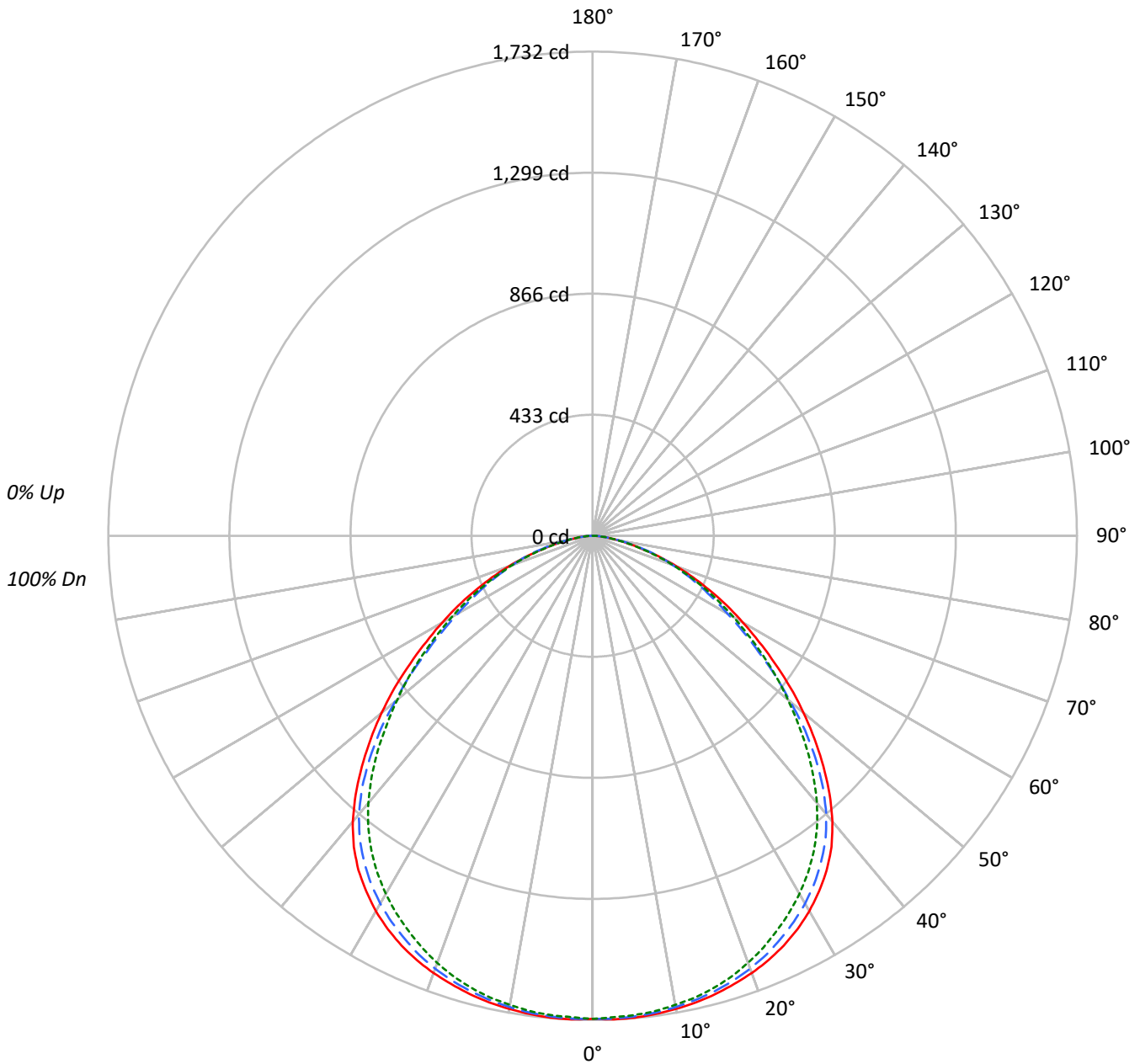
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4466.0 lumens
Efficiency: N/A
Efficacy: 104.1 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°	4650	4650	4650
5°	4674	4662	4649
10°	4697	4678	4655
15°	4729	4699	4665
20°	4767	4718	4655
25°	4801	4724	4629
30°	4818	4720	4596
35°	4796	4681	4529
40°	4688	4566	4383
45°	4443	4291	4134
50°	4124	3861	3816
55°	3734	3403	3479
60°	3340	2997	3129
65°	2946	2688	2780
70°	2507	2381	2399
75°	1928	2031	1871
80°	1413	1485	1401
85°	945	1041	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	3.7
10°-20°	476.1	10.7
20°-30°	732.2	16.4
30°-40°	886.0	19.8
40°-50°	865.0	19.4
50°-60°	668.4	15.0
60°-70°	429.2	9.6
70°-80°	202.6	4.5
80°-90°	42.5	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°	1372.4	30.7
0°-40°	2258.4	50.6
0°-60°	3791.7	84.9
0°-90°	4466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1728	1728	1728	1728	1728	
5°	1730	1723	1726	1724	1721	165
15°	1698	1689	1687	1681	1674	480
25°	1617	1604	1591	1570	1559	745
35°	1460	1445	1425	1393	1379	910
45°	1167	1153	1128	1098	1086	898
55°	796	758	725	726	742	713
65°	463	435	422	418	437	461
75°	185	188	195	179	180	203
85°	31	35	34	33	33	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1728.1	1728.1	1728.1	1728.1	1728.1
2.5°	1732.0	1725.1	1728.9	1728.9	1723.5
5°	1730.4	1722.8	1725.8	1724.3	1721.2
7.5°	1725.8	1718.2	1720.5	1718.9	1715.1
10°	1718.9	1710.5	1712.1	1709.0	1703.6
12.5°	1709.8	1702.1	1700.6	1696.0	1692.1
15°	1697.5	1689.1	1686.8	1680.6	1674.5
17.5°	1681.4	1673.0	1669.2	1660.0	1653.1
20°	1664.6	1654.6	1647.7	1633.9	1625.5
22.5°	1643.1	1631.6	1622.4	1603.3	1594.9
25°	1617.1	1604.0	1591.0	1570.3	1558.9
27.5°	1586.4	1572.6	1557.3	1534.3	1521.3
30°	1550.4	1536.6	1519.0	1493.0	1479.2
32.5°	1507.5	1493.7	1475.4	1445.5	1431.7
35°	1460.0	1444.7	1424.8	1392.6	1378.8
37.5°	1403.3	1386.5	1368.1	1332.9	1318.3
40°	1334.4	1319.9	1299.9	1264.7	1247.8
42.5°	1254.7	1241.7	1219.5	1185.8	1169.7
45°	1167.4	1152.9	1127.6	1098.5	1086.2
47.5°	1076.3	1054.8	1030.3	1005.0	998.1
50°	985.1	957.5	922.3	909.3	911.6
52.5°	891.6	856.4	825.8	815.8	827.3
55°	795.9	757.6	725.4	726.2	741.5
57.5°	704.7	664.9	638.1	638.1	658.0
60°	620.5	583.7	556.9	556.1	581.4
62.5°	542.3	504.8	484.9	484.9	507.9
65°	462.7	435.1	422.1	417.5	436.6
67.5°	389.1	370.0	360.8	355.4	367.7
70°	318.7	306.4	302.6	296.4	304.9
72.5°	249.0	245.9	253.6	239.0	242.8
75°	185.4	188.4	195.3	179.2	180.0
77.5°	133.3	139.4	141.7	134.1	134.1
80°	91.2	98.8	95.8	91.9	90.4
82.5°	58.2	62.0	62.0	59.7	58.2
85°	30.6	35.2	33.7	32.9	32.9
87.5°	11.5	16.1	16.1	15.3	14.6
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)