

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: P412662

Luminaire Tested: **14PD-45-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-45-PP3-L850
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

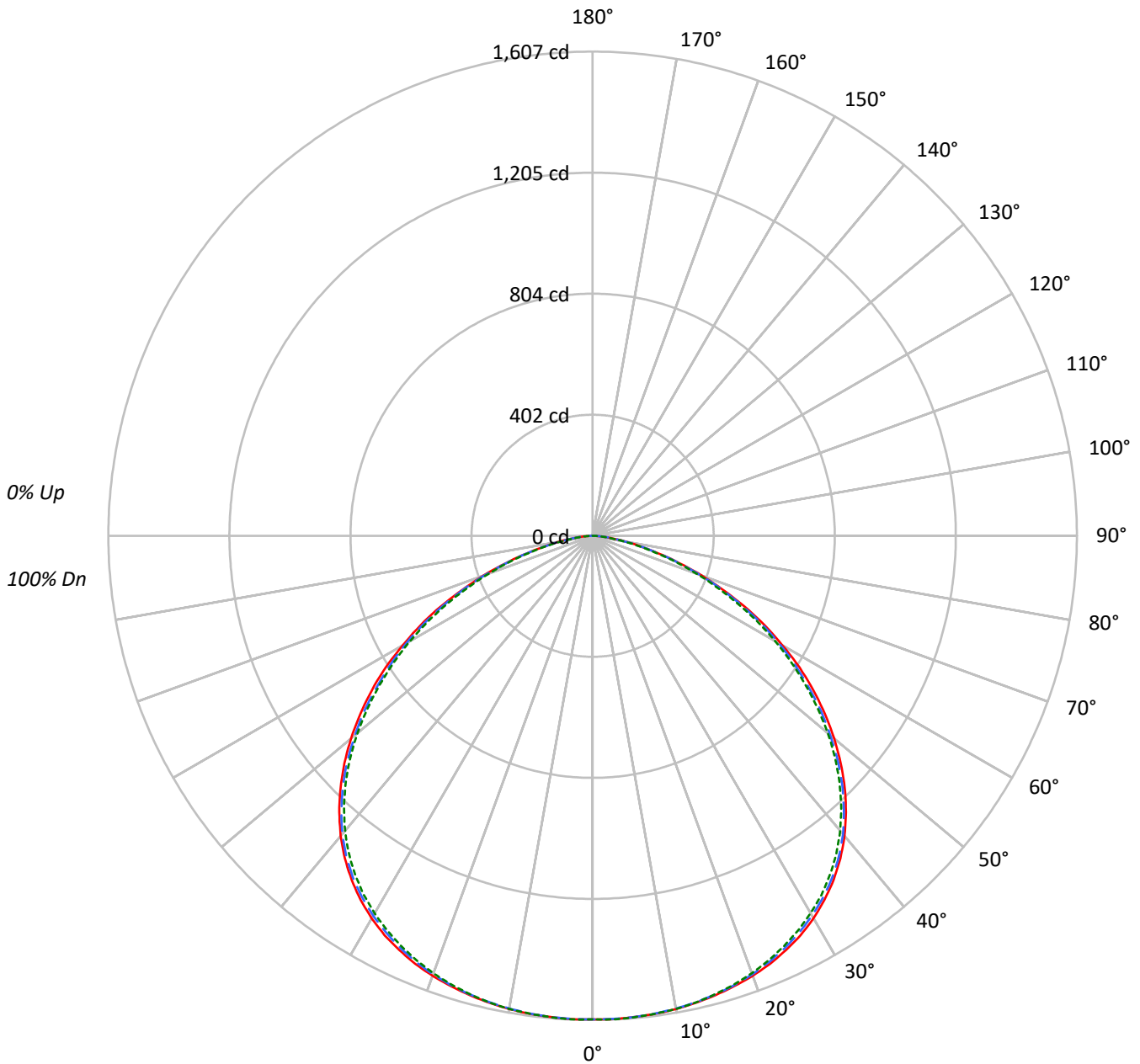
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4671.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60																			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52																			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31																			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4320	4320	4320
5°	4331	4330	4333
10°	4358	4353	4357
15°	4397	4390	4388
20°	4450	4435	4425
25°	4506	4482	4461
30°	4556	4524	4495
35°	4580	4553	4511
40°	4568	4540	4490
45°	4503	4459	4409
50°	4379	4309	4264
55°	4198	4098	4045
60°	3912	3844	3766
65°	3546	3475	3373
70°	3026	2971	2876
75°	2363	2339	2228
80°	1743	1671	1578
85°	1053	1053	979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	3.3
10°-20°	445.7	9.5
20°-30°	696.6	14.9
30°-40°	865.7	18.5
40°-50°	902.0	19.3
50°-60°	782.7	16.8
60°-70°	538.2	11.5
70°-80°	242.9	5.2
80°-90°	44.5	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°	1295.0	27.7
0°-40°	2160.7	46.3
0°-60°	3845.4	82.3
0°-90°	4671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1605	1605	1605	1605	1605	
5°	1603	1604	1603	1602	1604	153
15°	1578	1578	1576	1574	1575	446
25°	1518	1517	1510	1504	1503	700
35°	1394	1394	1386	1378	1373	871
45°	1183	1184	1172	1163	1159	911
55°	895	890	873	863	862	797
65°	557	554	546	533	530	550
75°	227	228	225	219	214	247
85°	34	34	34	34	32	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1605.3	1605.3	1605.3	1605.3	1605.3
2.5°	1605.8	1605.8	1604.8	1603.4	1606.7
5°	1603.4	1603.9	1603.0	1601.6	1603.9
7.5°	1600.2	1600.6	1599.2	1597.8	1599.7
10°	1595.0	1594.6	1593.2	1592.2	1594.6
12.5°	1587.5	1587.1	1585.7	1584.7	1586.6
15°	1578.2	1578.2	1575.9	1574.5	1574.9
17.5°	1567.0	1567.0	1563.7	1560.5	1561.4
20°	1553.9	1553.5	1548.8	1545.5	1545.1
22.5°	1537.6	1537.6	1531.1	1526.9	1525.5
25°	1517.5	1517.1	1509.6	1503.5	1502.6
27.5°	1494.7	1493.7	1484.9	1478.8	1476.5
30°	1466.2	1465.2	1455.9	1449.4	1446.6
32.5°	1432.6	1434.0	1423.2	1415.8	1413.0
35°	1394.3	1394.3	1385.9	1378.0	1373.3
37.5°	1350.4	1350.4	1342.5	1334.5	1328.9
40°	1300.5	1300.9	1292.5	1282.7	1278.1
42.5°	1244.5	1245.4	1234.2	1226.3	1221.1
45°	1183.3	1183.8	1171.6	1162.8	1158.6
47.5°	1117.0	1116.1	1102.6	1095.1	1090.9
50°	1046.1	1044.2	1029.3	1022.3	1018.5
52.5°	971.9	968.1	955.0	944.8	941.5
55°	894.8	889.7	873.4	863.1	862.2
57.5°	814.5	808.5	794.9	785.1	781.4
60°	726.8	725.4	714.2	702.5	699.7
62.5°	644.6	640.4	630.6	616.6	615.2
65°	556.9	554.5	545.7	532.6	529.8
67.5°	466.3	468.7	461.2	449.5	445.8
70°	384.6	386.0	377.6	366.9	365.5
72.5°	302.5	304.8	297.8	290.8	289.4
75°	227.3	228.3	225.0	218.9	214.3
77.5°	161.5	164.8	161.0	156.8	153.1
80°	112.5	107.4	107.8	106.0	101.8
82.5°	67.7	65.4	64.9	63.0	61.1
85°	34.1	33.6	34.1	33.6	31.7
87.5°	11.2	12.1	12.6	12.6	11.7
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)