

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: P412742

Luminaire Tested: **22PD-45-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-45-PP3-L840
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

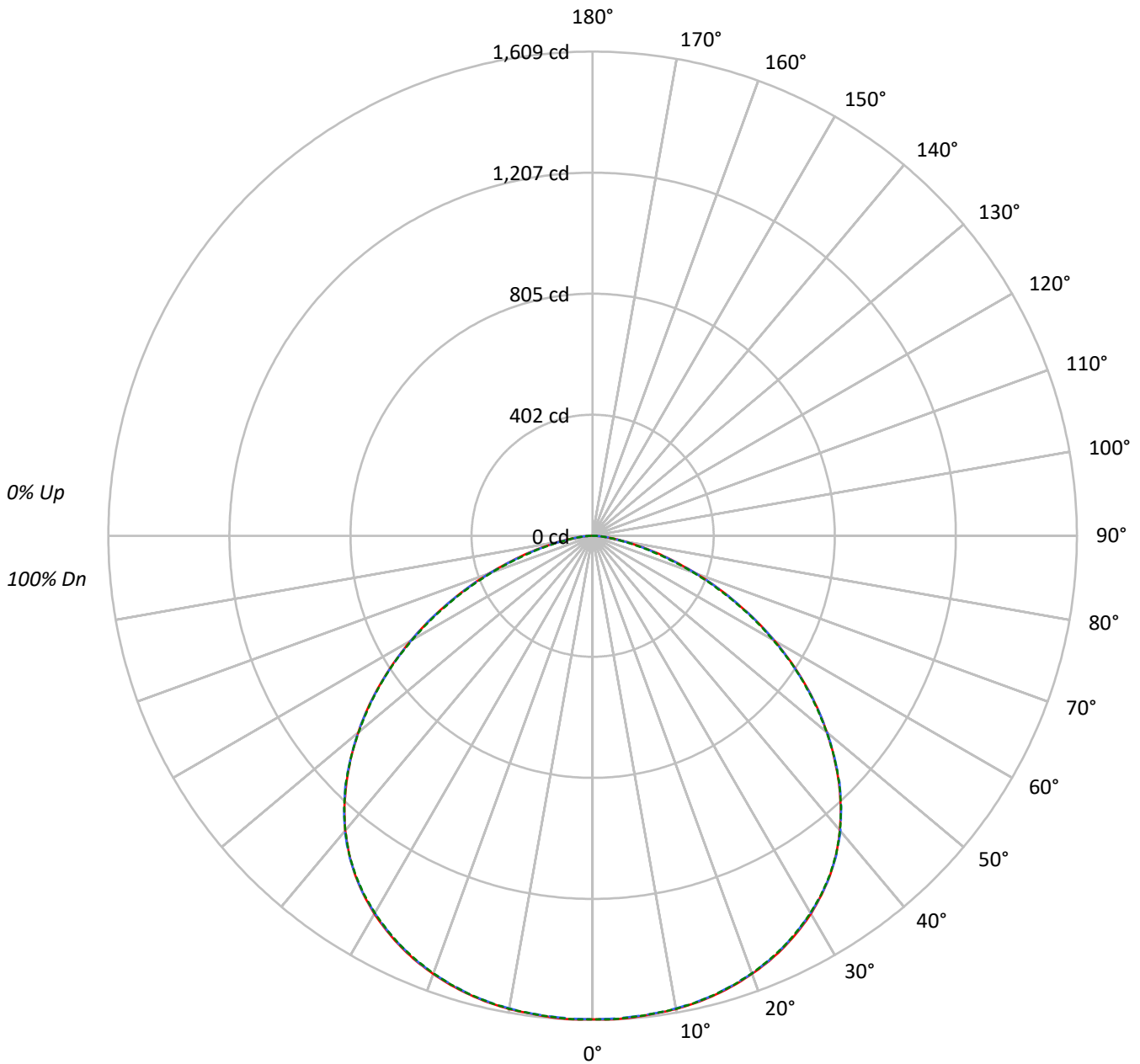
Lumens per Lamp: N/A
Luminaire Lumens: 4610.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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	87	81	77	83	79	75	80	77	74	72																			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61																			
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52																			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45																			
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39																			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28																			
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°	4324	4324	4324
5°	4337	4332	4334
10°	4364	4358	4361
15°	4399	4394	4394
20°	4437	4432	4431
25°	4476	4468	4468
30°	4508	4499	4498
35°	4521	4521	4515
40°	4491	4500	4491
45°	4402	4414	4408
50°	4254	4261	4249
55°	4050	4040	4032
60°	3759	3751	3722
65°	3358	3354	3317
70°	2870	2854	2790
75°	2287	2220	2153
80°	1630	1596	1512
85°	1059	1059	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	3.3
10°-20°	445.7	9.7
20°-30°	694.0	15.1
30°-40°	859.0	18.6
40°-50°	890.7	19.3
50°-60°	767.7	16.7
60°-70°	522.0	11.3
70°-80°	233.6	5.1
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°	1292.6	28.0
0°-40°	2151.6	46.7
0°-60°	3810.0	82.6
0°-90°	4610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1607	1607	1607	1607	1607	
5°	1606	1602	1604	1603	1605	153
15°	1579	1576	1577	1576	1577	446
25°	1508	1505	1505	1504	1505	695
35°	1376	1374	1376	1374	1374	860
45°	1157	1156	1160	1157	1158	890
55°	863	860	861	860	860	770
65°	527	532	527	525	521	524
75°	220	220	214	212	207	237
85°	34	35	34	33	33	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1606.8	1606.8	1606.8	1606.8	1606.8
2.5°	1608.9	1605.7	1605.7	1606.3	1607.9
5°	1605.7	1602.5	1603.6	1603.0	1604.6
7.5°	1601.4	1598.7	1600.4	1599.3	1600.4
10°	1597.1	1594.5	1595.0	1594.5	1596.1
12.5°	1589.6	1586.4	1587.5	1587.5	1588.0
15°	1578.9	1576.2	1577.3	1576.2	1577.3
17.5°	1566.0	1562.8	1563.3	1562.8	1563.9
20°	1549.4	1547.2	1547.8	1546.7	1547.2
22.5°	1530.6	1527.9	1528.5	1527.4	1527.4
25°	1507.5	1505.4	1504.9	1504.3	1504.9
27.5°	1480.7	1478.0	1478.0	1477.5	1477.5
30°	1450.7	1448.0	1448.0	1447.5	1447.5
32.5°	1415.3	1414.2	1414.7	1413.7	1413.1
35°	1376.1	1374.5	1376.1	1374.0	1374.5
37.5°	1330.5	1328.4	1331.6	1329.4	1330.0
40°	1278.5	1277.4	1281.1	1279.5	1278.5
42.5°	1220.5	1220.5	1222.1	1222.7	1221.6
45°	1156.7	1155.6	1159.9	1157.2	1158.3
47.5°	1088.0	1086.4	1089.6	1089.1	1088.5
50°	1016.1	1015.0	1017.7	1015.0	1015.0
52.5°	941.5	941.0	941.5	938.9	938.3
55°	863.2	860.0	861.1	859.5	859.5
57.5°	781.7	777.9	778.4	777.9	778.4
60°	698.5	697.4	696.9	694.2	691.5
62.5°	613.2	614.3	613.7	610.0	607.3
65°	527.4	531.7	526.8	525.2	520.9
67.5°	446.4	448.0	444.8	441.0	436.2
70°	364.8	368.0	362.7	358.9	354.6
72.5°	287.0	289.2	284.3	282.2	276.8
75°	220.0	220.5	213.5	212.5	207.1
77.5°	156.7	158.8	153.4	153.4	148.1
80°	105.2	108.9	103.0	101.4	97.6
82.5°	66.0	66.5	64.9	63.3	61.7
85°	34.3	35.4	34.3	33.3	33.3
87.5°	12.9	13.4	12.9	12.3	12.9
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)