

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: P412311

Luminaire Tested: **14PD-40-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412311
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-40-PB1-L850
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

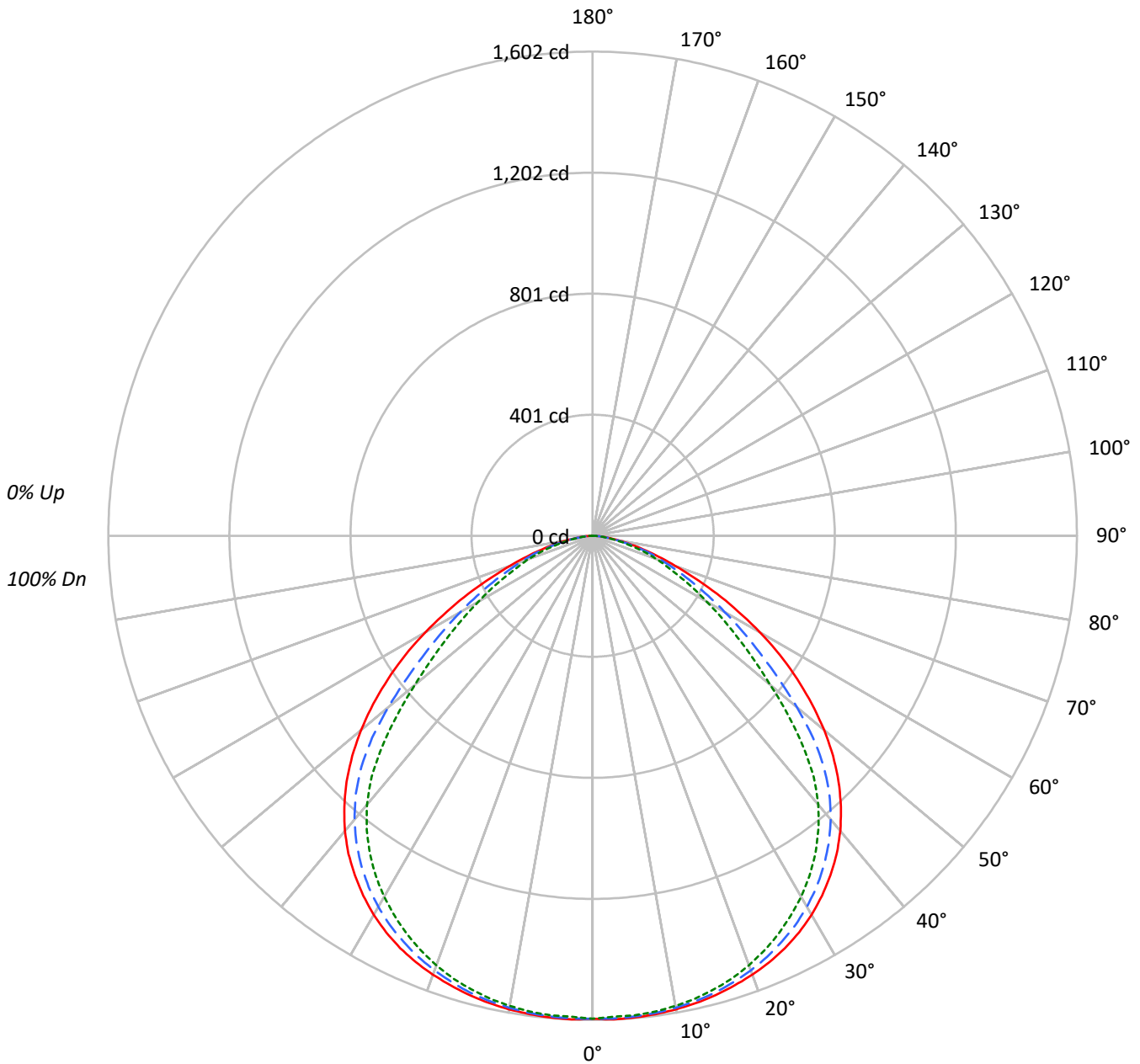
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4119.0 lumens
Efficiency: N/A
Efficacy: 109.0 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): 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					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°	4300	4300	4300
5°	4322	4313	4302
10°	4348	4333	4316
15°	4383	4360	4328
20°	4425	4382	4329
25°	4471	4399	4316
30°	4500	4405	4286
35°	4504	4380	4219
40°	4478	4305	4079
45°	4380	4117	3745
50°	4186	3688	3210
55°	3877	3162	2742
60°	3443	2715	2343
65°	2890	2315	2006
70°	2291	1968	1769
75°	1790	1606	1407
80°	1334	1196	1080
85°	886	781	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	3.7
10°-20°	441.6	10.7
20°-30°	681.9	16.6
30°-40°	829.9	20.1
40°-50°	821.2	19.9
50°-60°	618.8	15.0
60°-70°	371.8	9.0
70°-80°	167.6	4.1
80°-90°	34.3	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°	1275.4	31.0
0°-40°	2105.3	51.1
0°-60°	3545.3	86.1
0°-90°	4119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1600	1594	1597	1595	1592	152
15°	1573	1566	1565	1559	1554	445
25°	1506	1494	1482	1462	1454	694
35°	1371	1356	1333	1301	1284	857
45°	1151	1131	1082	1016	984	884
55°	826	768	674	608	584	736
65°	454	411	364	325	315	451
75°	172	163	154	140	135	188
85°	29	29	25	24	23	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.9	1597.9	1597.9	1597.9	1597.9
2.5°	1602.0	1595.2	1598.6	1597.9	1592.5
5°	1600.0	1593.8	1596.6	1595.2	1592.5
7.5°	1596.6	1590.4	1592.5	1590.4	1587.7
10°	1591.1	1584.3	1585.6	1581.5	1579.5
12.5°	1583.6	1575.4	1576.7	1571.3	1568.5
15°	1573.3	1565.8	1565.1	1559.0	1553.5
17.5°	1560.3	1552.8	1548.7	1541.9	1535.7
20°	1545.3	1535.7	1530.3	1518.0	1511.8
22.5°	1527.5	1517.3	1508.4	1491.3	1485.2
25°	1505.7	1494.0	1481.7	1461.9	1453.7
27.5°	1479.0	1466.7	1452.4	1430.5	1418.2
30°	1448.3	1435.3	1417.5	1392.2	1379.2
32.5°	1412.0	1397.7	1378.5	1348.5	1334.8
35°	1371.0	1356.0	1333.4	1300.6	1284.2
37.5°	1326.6	1309.5	1282.9	1243.2	1226.8
40°	1274.7	1257.6	1225.4	1179.7	1161.2
42.5°	1215.9	1198.8	1159.8	1105.2	1082.6
45°	1150.9	1131.1	1081.9	1015.6	984.2
47.5°	1078.5	1053.2	989.0	907.6	876.2
50°	999.9	966.4	881.0	797.6	766.8
52.5°	914.5	872.1	773.7	699.2	669.8
55°	826.3	768.2	673.9	608.3	584.4
57.5°	734.7	665.0	586.4	529.0	506.4
60°	639.7	572.1	504.4	451.8	435.4
62.5°	542.7	487.3	431.3	382.7	373.9
65°	453.8	411.4	363.6	325.3	315.1
67.5°	364.3	340.4	303.5	277.5	265.9
70°	291.2	275.4	250.1	229.0	224.9
72.5°	227.6	217.3	207.8	189.3	181.8
75°	172.2	163.3	154.5	140.1	135.3
77.5°	124.4	121.0	113.5	103.9	101.8
80°	86.1	86.1	77.2	71.8	69.7
82.5°	53.3	58.1	48.5	45.1	43.1
85°	28.7	29.4	25.3	23.9	23.2
87.5°	10.9	12.3	11.6	9.6	9.6
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)