

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: P412309

Luminaire Tested: **14PD-40-PB1-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412309
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-L835
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

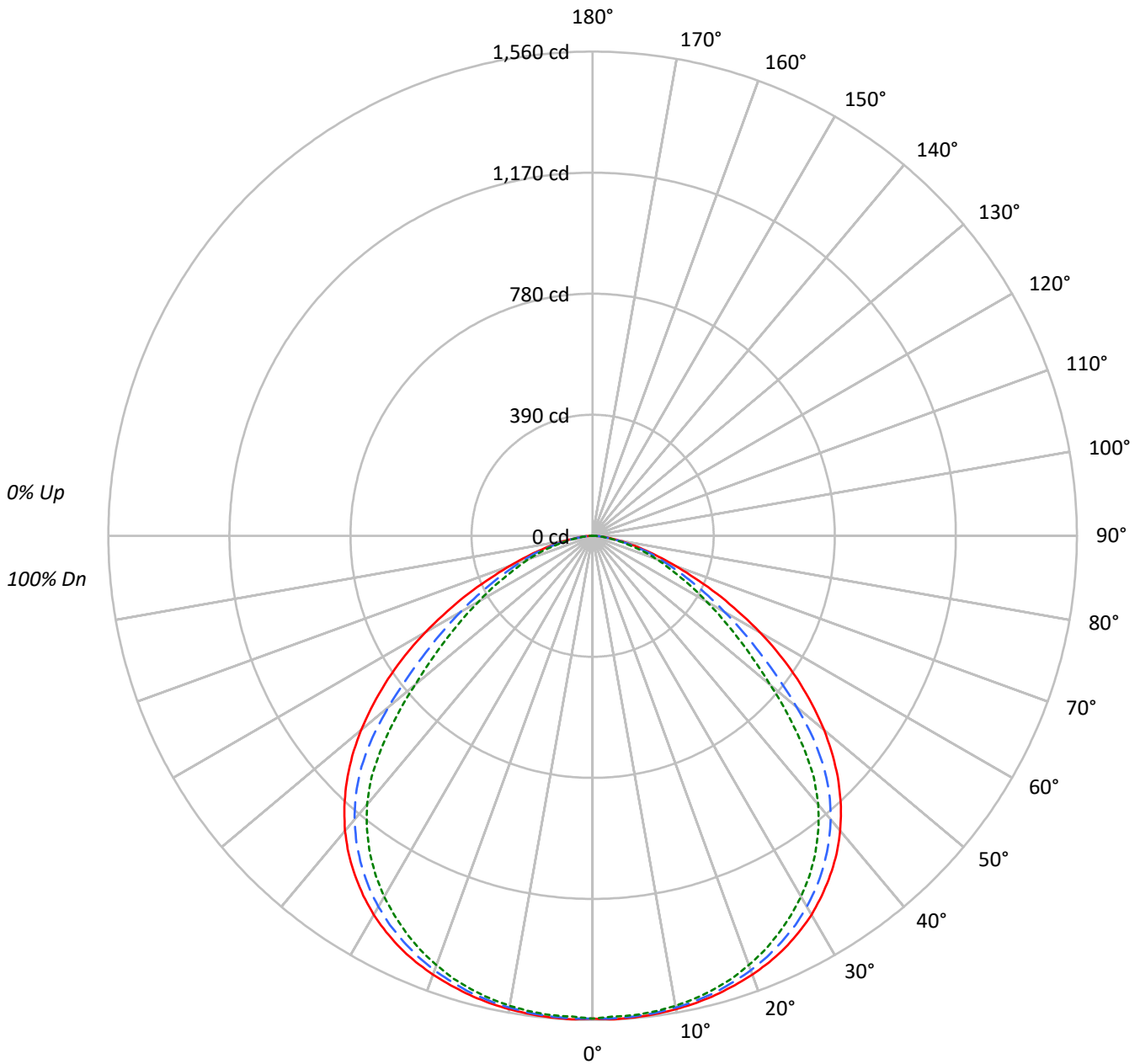
Lumens per Lamp: N/A
Luminaire Lumens: 4010.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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									
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	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°	4186	4186	4186
5°	4207	4199	4188
10°	4233	4218	4202
15°	4267	4245	4213
20°	4308	4266	4215
25°	4352	4283	4202
30°	4381	4288	4172
35°	4385	4264	4107
40°	4359	4191	3971
45°	4264	4008	3646
50°	4075	3591	3125
55°	3774	3078	2669
60°	3352	2643	2281
65°	2813	2254	1953
70°	2230	1916	1722
75°	1744	1564	1369
80°	1299	1165	1052
85°	861	760	698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	3.7
10°-20°	429.9	10.7
20°-30°	663.9	16.6
30°-40°	807.9	20.1
40°-50°	799.5	19.9
50°-60°	602.4	15.0
60°-70°	362.0	9.0
70°-80°	163.1	4.1
80°-90°	33.4	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°	1241.7	31.0
0°-40°	2049.6	51.1
0°-60°	3451.5	86.1
0°-90°	4010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1556	1556	1556	1556	1556	
5°	1558	1552	1554	1553	1550	148
15°	1532	1524	1524	1518	1512	433
25°	1466	1454	1442	1423	1415	676
35°	1335	1320	1298	1266	1250	834
45°	1120	1101	1053	989	958	861
55°	804	748	656	592	569	717
65°	442	401	354	317	307	439
75°	168	159	150	136	132	183
85°	28	29	25	23	23	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1555.6	1555.6	1555.6	1555.6	1555.6
2.5°	1559.6	1553.0	1556.3	1555.6	1550.3
5°	1557.6	1551.7	1554.3	1553.0	1550.3
7.5°	1554.3	1548.3	1550.3	1548.3	1545.7
10°	1549.0	1542.3	1543.7	1539.7	1537.7
12.5°	1541.7	1533.7	1535.0	1529.7	1527.0
15°	1531.7	1524.4	1523.7	1517.7	1512.4
17.5°	1519.0	1511.7	1507.7	1501.1	1495.1
20°	1504.4	1495.1	1489.8	1477.8	1471.8
22.5°	1487.1	1477.1	1468.5	1451.8	1445.9
25°	1465.8	1454.5	1442.5	1423.2	1415.2
27.5°	1439.9	1427.9	1413.9	1392.6	1380.6
30°	1409.9	1397.3	1380.0	1355.4	1342.7
32.5°	1374.7	1360.7	1342.1	1312.8	1299.5
35°	1334.7	1320.1	1298.1	1266.2	1250.2
37.5°	1291.5	1274.9	1248.9	1210.3	1194.3
40°	1240.9	1224.3	1193.0	1148.4	1130.5
42.5°	1183.7	1167.1	1129.1	1075.9	1054.0
45°	1120.5	1101.2	1053.3	988.7	958.1
47.5°	1050.0	1025.3	962.8	883.6	853.0
50°	973.4	940.8	857.7	776.5	746.5
52.5°	890.3	849.0	753.2	680.7	652.1
55°	804.4	747.9	656.1	592.2	568.9
57.5°	715.3	647.4	570.9	515.0	493.0
60°	622.8	556.9	491.0	439.8	423.8
62.5°	528.3	474.4	419.9	372.6	364.0
65°	441.8	400.6	354.0	316.7	306.7
67.5°	354.6	331.4	295.4	270.1	258.8
70°	283.4	268.1	243.5	222.9	218.9
72.5°	221.6	211.6	202.3	184.3	177.0
75°	167.7	159.0	150.4	136.4	131.7
77.5°	121.1	117.8	110.5	101.1	99.1
80°	83.8	83.8	75.2	69.9	67.9
82.5°	51.9	56.6	47.2	43.9	41.9
85°	27.9	28.6	24.6	23.3	22.6
87.5°	10.6	12.0	11.3	9.3	9.3
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)