

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: P412308

Luminaire Tested: **14PD-40-PB1-L830**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412308
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-L830
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

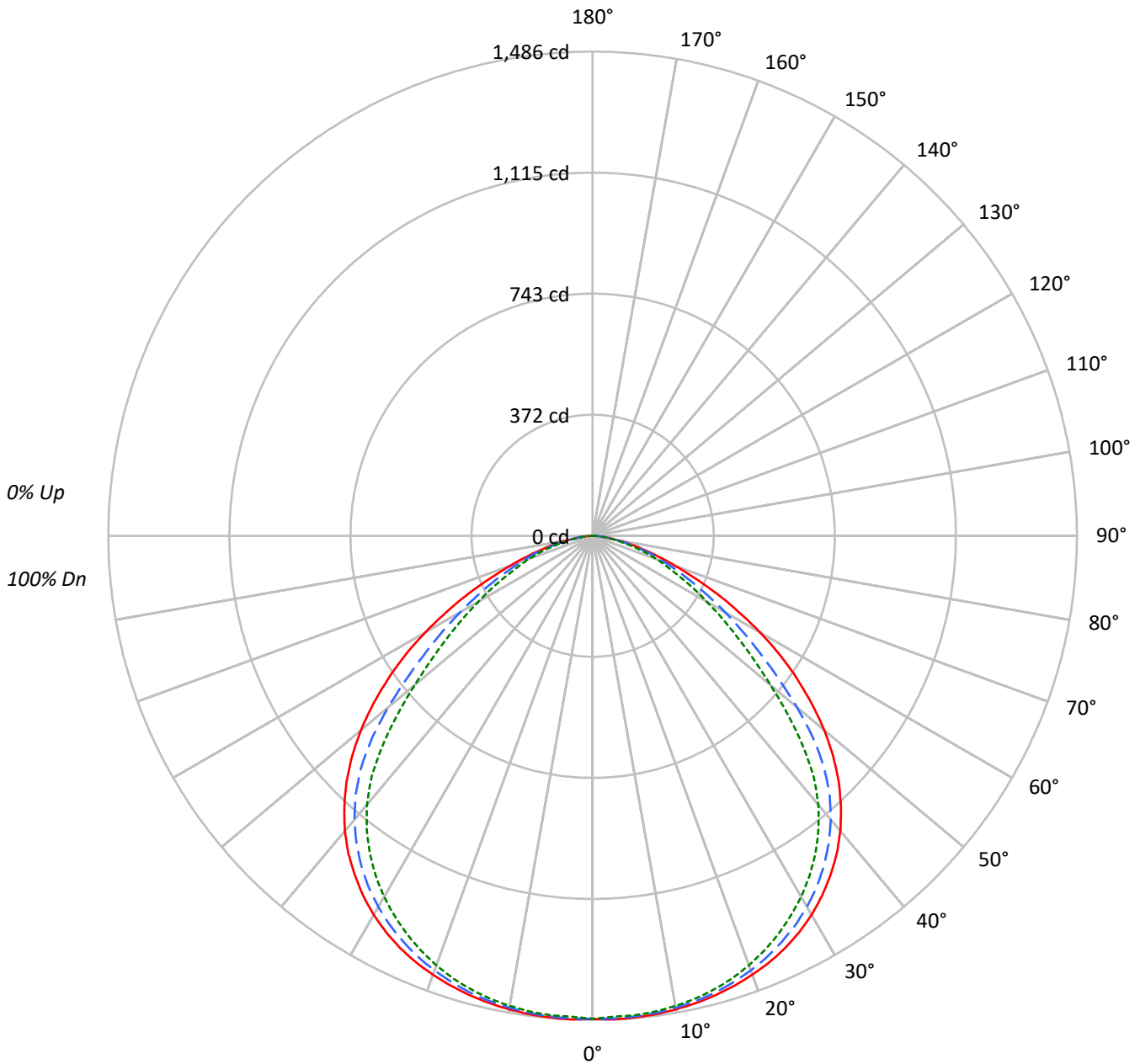
Lumens per Lamp: N/A
Luminaire Lumens: 3821.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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				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				100
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63				63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55				55
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48				48
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	37	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3989	3989	3989
5°	4009	4001	3990
10°	4033	4019	4004
15°	4066	4045	4015
20°	4105	4065	4016
25°	4147	4081	4004
30°	4175	4086	3975
35°	4178	4064	3914
40°	4154	3993	3784
45°	4063	3819	3475
50°	3883	3421	2978
55°	3596	2933	2543
60°	3194	2518	2174
65°	2681	2148	1861
70°	2125	1825	1641
75°	1661	1490	1305
80°	1238	1110	1003
85°	821	726	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	3.7
10°-20°	409.6	10.7
20°-30°	632.6	16.6
30°-40°	769.9	20.1
40°-50°	761.8	19.9
50°-60°	574.0	15.0
60°-70°	344.9	9.0
70°-80°	155.5	4.1
80°-90°	31.8	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°	1183.1	31.0
0°-40°	1953.0	51.1
0°-60°	3288.8	86.1
0°-90°	3821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1484	1478	1481	1480	1477	141
15°	1460	1452	1452	1446	1441	413
25°	1397	1386	1374	1356	1348	644
35°	1272	1258	1237	1206	1191	795
45°	1068	1049	1004	942	913	820
55°	766	713	625	564	542	683
65°	421	382	337	302	292	418
75°	160	152	143	130	126	174
85°	27	27	24	22	22	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1482.3	1482.3	1482.3	1482.3	1482.3
2.5°	1486.1	1479.8	1483.0	1482.3	1477.2
5°	1484.2	1478.5	1481.1	1479.8	1477.2
7.5°	1481.1	1475.3	1477.2	1475.3	1472.8
10°	1476.0	1469.6	1470.9	1467.1	1465.2
12.5°	1469.0	1461.4	1462.7	1457.6	1455.1
15°	1459.5	1452.5	1451.9	1446.2	1441.1
17.5°	1447.5	1440.5	1436.7	1430.3	1424.6
20°	1433.5	1424.6	1419.6	1408.1	1402.4
22.5°	1417.0	1407.5	1399.3	1383.4	1377.7
25°	1396.7	1386.0	1374.5	1356.2	1348.5
27.5°	1372.0	1360.6	1347.3	1327.0	1315.6
30°	1343.5	1331.4	1314.9	1291.5	1279.4
32.5°	1309.9	1296.6	1278.8	1250.9	1238.2
35°	1271.8	1257.9	1237.0	1206.5	1191.3
37.5°	1230.6	1214.8	1190.0	1153.3	1138.1
40°	1182.4	1166.6	1136.8	1094.3	1077.2
42.5°	1127.9	1112.1	1075.9	1025.2	1004.3
45°	1067.7	1049.3	1003.6	942.1	913.0
47.5°	1000.5	977.0	917.4	842.0	812.8
50°	927.6	896.5	817.2	739.9	711.4
52.5°	848.3	809.0	717.7	648.6	621.3
55°	766.5	712.6	625.1	564.3	542.1
57.5°	681.6	616.9	544.0	490.7	469.8
60°	593.4	530.7	467.9	419.1	403.9
62.5°	503.4	452.1	400.1	355.0	346.8
65°	421.0	381.7	337.3	301.8	292.3
67.5°	337.9	315.7	281.5	257.4	246.6
70°	270.1	255.5	232.0	212.4	208.6
72.5°	211.1	201.6	192.7	175.6	168.6
75°	159.8	151.5	143.3	130.0	125.5
77.5°	115.4	112.2	105.2	96.4	94.5
80°	79.9	79.9	71.6	66.6	64.7
82.5°	49.5	53.9	45.0	41.8	39.9
85°	26.6	27.3	23.5	22.2	21.6
87.5°	10.1	11.4	10.8	8.9	8.9
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)