

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: P412323

Luminaire Tested: **14PD-45-PB1-L935**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412323
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-45-PB1-L935
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90
CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

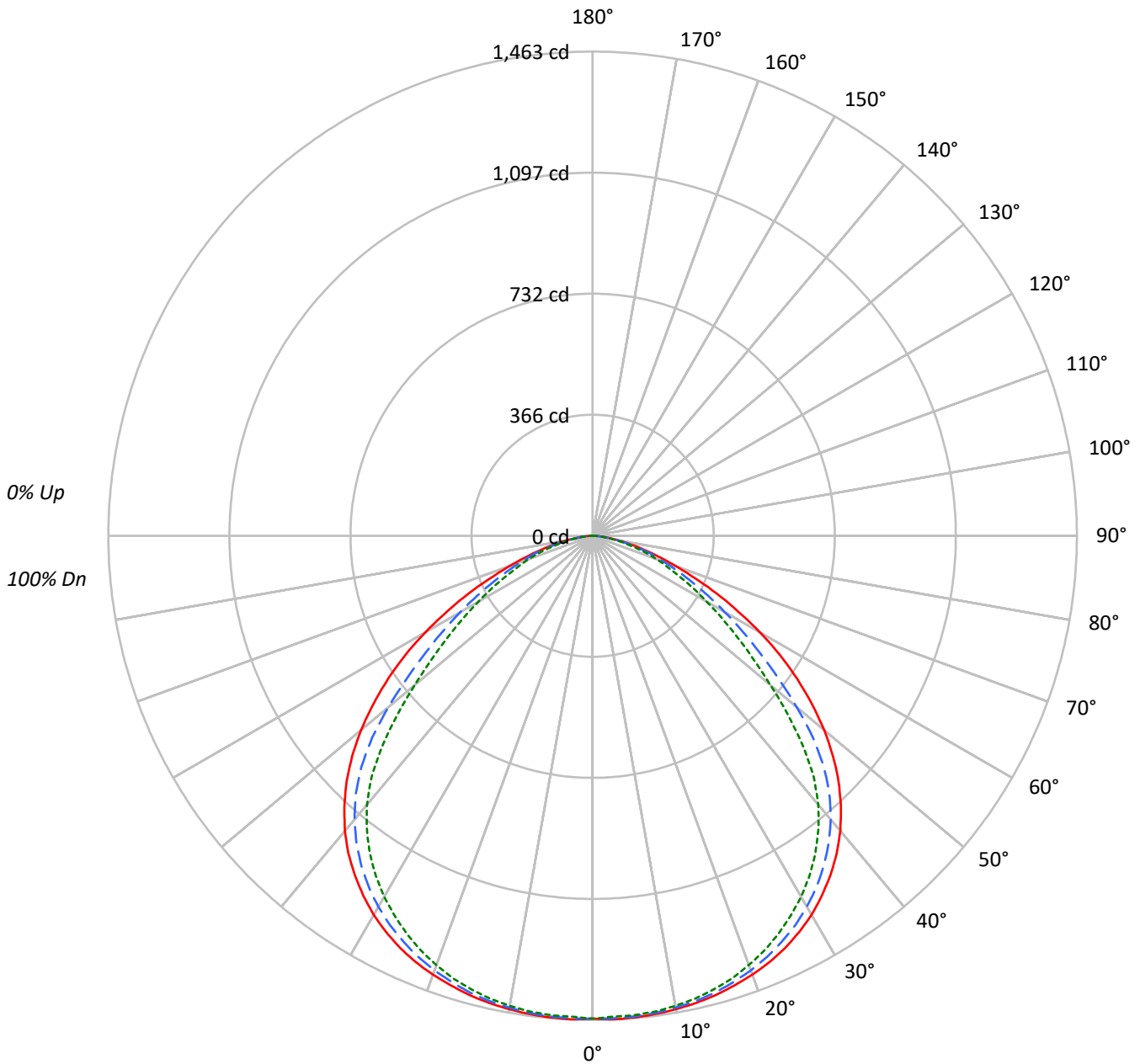
Lumens per Lamp: N/A
Luminaire Lumens: 3761.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3926	3926	3926
5°	3946	3938	3928
10°	3970	3956	3941
15°	4002	3981	3952
20°	4041	4001	3953
25°	4082	4017	3941
30°	4109	4022	3913
35°	4113	4000	3852
40°	4089	3930	3725
45°	3999	3760	3420
50°	3822	3368	2931
55°	3540	2887	2503
60°	3144	2479	2139
65°	2639	2114	1832
70°	2091	1797	1615
75°	1635	1466	1285
80°	1218	1093	987
85°	809	713	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	3.7
10°-20°	403.2	10.7
20°-30°	622.6	16.6
30°-40°	757.8	20.1
40°-50°	749.9	19.9
50°-60°	565.0	15.0
60°-70°	339.5	9.0
70°-80°	153.0	4.1
80°-90°	31.3	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°	1164.6	31.0
0°-40°	1922.3	51.1
0°-60°	3237.2	86.1
0°-90°	3761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1461	1455	1458	1456	1454	139
15°	1437	1430	1429	1424	1418	406
25°	1375	1364	1353	1335	1327	634
35°	1252	1238	1218	1188	1173	783
45°	1051	1033	988	927	899	807
55°	754	701	615	555	534	672
65°	414	376	332	297	288	412
75°	157	149	141	128	124	171
85°	26	27	23	22	21	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1459.0	1459.0	1459.0	1459.0	1459.0
2.5°	1462.8	1456.5	1459.7	1459.0	1454.1
5°	1460.9	1455.3	1457.8	1456.5	1454.1
7.5°	1457.8	1452.2	1454.1	1452.2	1449.7
10°	1452.8	1446.6	1447.8	1444.1	1442.2
12.5°	1445.9	1438.5	1439.7	1434.7	1432.2
15°	1436.6	1429.7	1429.1	1423.5	1418.5
17.5°	1424.7	1417.9	1414.1	1407.9	1402.3
20°	1411.0	1402.3	1397.3	1386.0	1380.4
22.5°	1394.8	1385.4	1377.3	1361.7	1356.1
25°	1374.8	1364.2	1353.0	1334.9	1327.4
27.5°	1350.5	1339.2	1326.1	1306.2	1294.9
30°	1322.4	1310.5	1294.3	1271.2	1259.3
32.5°	1289.3	1276.2	1258.7	1231.3	1218.8
35°	1251.9	1238.1	1217.5	1187.6	1172.6
37.5°	1211.3	1195.7	1171.4	1135.2	1120.2
40°	1163.9	1148.3	1118.9	1077.1	1060.3
42.5°	1110.2	1094.6	1059.0	1009.1	988.5
45°	1050.9	1032.8	987.9	927.3	898.6
47.5°	984.8	961.7	903.0	828.7	800.0
50°	913.0	882.4	804.4	728.3	700.2
52.5°	835.0	796.3	706.4	638.4	611.6
55°	754.5	701.4	615.3	555.4	533.6
57.5°	670.9	607.2	535.4	483.0	462.4
60°	584.1	522.3	460.6	412.5	397.5
62.5°	495.5	445.0	393.8	349.5	341.4
65°	414.4	375.7	332.0	297.1	287.7
67.5°	332.6	310.8	277.1	253.4	242.8
70°	265.8	251.5	228.4	209.1	205.3
72.5°	207.8	198.5	189.7	172.9	166.0
75°	157.3	149.1	141.0	127.9	123.6
77.5°	113.6	110.5	103.6	94.9	93.0
80°	78.6	78.6	70.5	65.5	63.7
82.5°	48.7	53.0	44.3	41.2	39.3
85°	26.2	26.8	23.1	21.8	21.2
87.5°	10.0	11.2	10.6	8.7	8.7
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)