

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: P412322

Luminaire Tested: **14PD-45-PB1-L930**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412322
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-L930
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

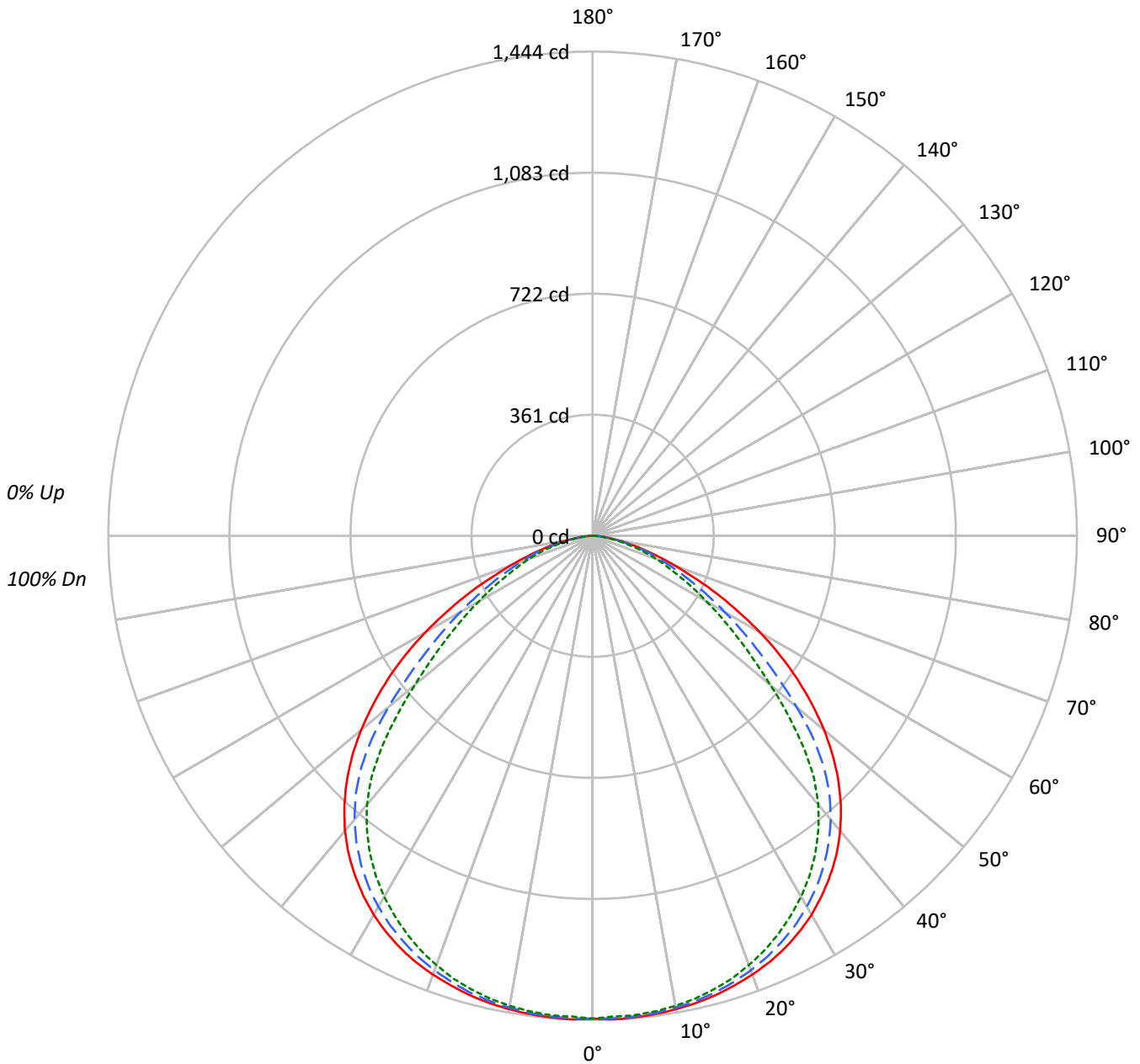
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3712.0 lumens
Efficiency: N/A
Efficacy: 86.5 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				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°	3875	3875	3875
5°	3895	3887	3877
10°	3918	3904	3889
15°	3950	3930	3900
20°	3988	3949	3901
25°	4029	3965	3890
30°	4055	3969	3862
35°	4059	3948	3802
40°	4035	3880	3676
45°	3947	3710	3375
50°	3772	3324	2893
55°	3494	2849	2471
60°	3103	2447	2111
65°	2604	2087	1808
70°	2065	1773	1594
75°	1614	1447	1268
80°	1203	1079	973
85°	800	704	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	3.7
10°-20°	397.9	10.7
20°-30°	614.5	16.6
30°-40°	747.9	20.1
40°-50°	740.1	19.9
50°-60°	557.6	15.0
60°-70°	335.1	9.0
70°-80°	151.0	4.1
80°-90°	30.9	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°	1149.4	31.0
0°-40°	1897.3	51.1
0°-60°	3195.0	86.1
0°-90°	3712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1442	1436	1439	1438	1435	137
15°	1418	1411	1410	1405	1400	401
25°	1357	1346	1335	1318	1310	625
35°	1236	1222	1202	1172	1157	772
45°	1037	1019	975	915	887	797
55°	745	692	607	548	527	663
65°	409	371	328	293	284	406
75°	155	147	139	126	122	169
85°	26	26	23	22	21	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1440.0	1440.0	1440.0	1440.0	1440.0
2.5°	1443.7	1437.6	1440.7	1440.0	1435.1
5°	1441.9	1436.3	1438.8	1437.6	1435.1
7.5°	1438.8	1433.3	1435.1	1433.3	1430.8
10°	1433.9	1427.7	1428.9	1425.3	1423.4
12.5°	1427.1	1419.7	1420.9	1416.0	1413.6
15°	1417.9	1411.1	1410.5	1404.9	1400.0
17.5°	1406.2	1399.4	1395.7	1389.5	1384.0
20°	1392.6	1384.0	1379.1	1368.0	1362.4
22.5°	1376.6	1367.4	1359.4	1344.0	1338.4
25°	1356.9	1346.4	1335.3	1317.5	1310.1
27.5°	1332.9	1321.8	1308.8	1289.1	1278.0
30°	1305.1	1293.4	1277.4	1254.6	1242.9
32.5°	1272.5	1259.6	1242.3	1215.2	1202.9
35°	1235.5	1222.0	1201.7	1172.1	1157.3
37.5°	1195.5	1180.1	1156.1	1120.4	1105.6
40°	1148.7	1133.3	1104.4	1063.1	1046.5
42.5°	1095.7	1080.3	1045.2	996.0	975.6
45°	1037.2	1019.4	975.0	915.3	886.9
47.5°	971.9	949.1	891.2	818.0	789.6
50°	901.1	870.9	793.9	718.8	691.1
52.5°	824.1	785.9	697.2	630.1	603.6
55°	744.7	692.3	607.3	548.2	526.6
57.5°	662.1	599.3	528.5	476.7	456.4
60°	576.5	515.5	454.6	407.1	392.3
62.5°	489.0	439.2	388.6	344.9	336.9
65°	409.0	370.8	327.7	293.2	283.9
67.5°	328.3	306.7	273.5	250.1	239.6
70°	262.4	248.2	225.4	206.3	202.6
72.5°	205.1	195.9	187.2	170.6	163.8
75°	155.2	147.2	139.2	126.3	122.0
77.5°	112.1	109.0	102.2	93.6	91.8
80°	77.6	77.6	69.6	64.7	62.8
82.5°	48.0	52.4	43.7	40.7	38.8
85°	25.9	26.5	22.8	21.6	20.9
87.5°	9.9	11.1	10.5	8.6	8.6
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)