

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: P412653

Luminaire Tested: **14PD-40-PP3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-40-PP3-L850
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

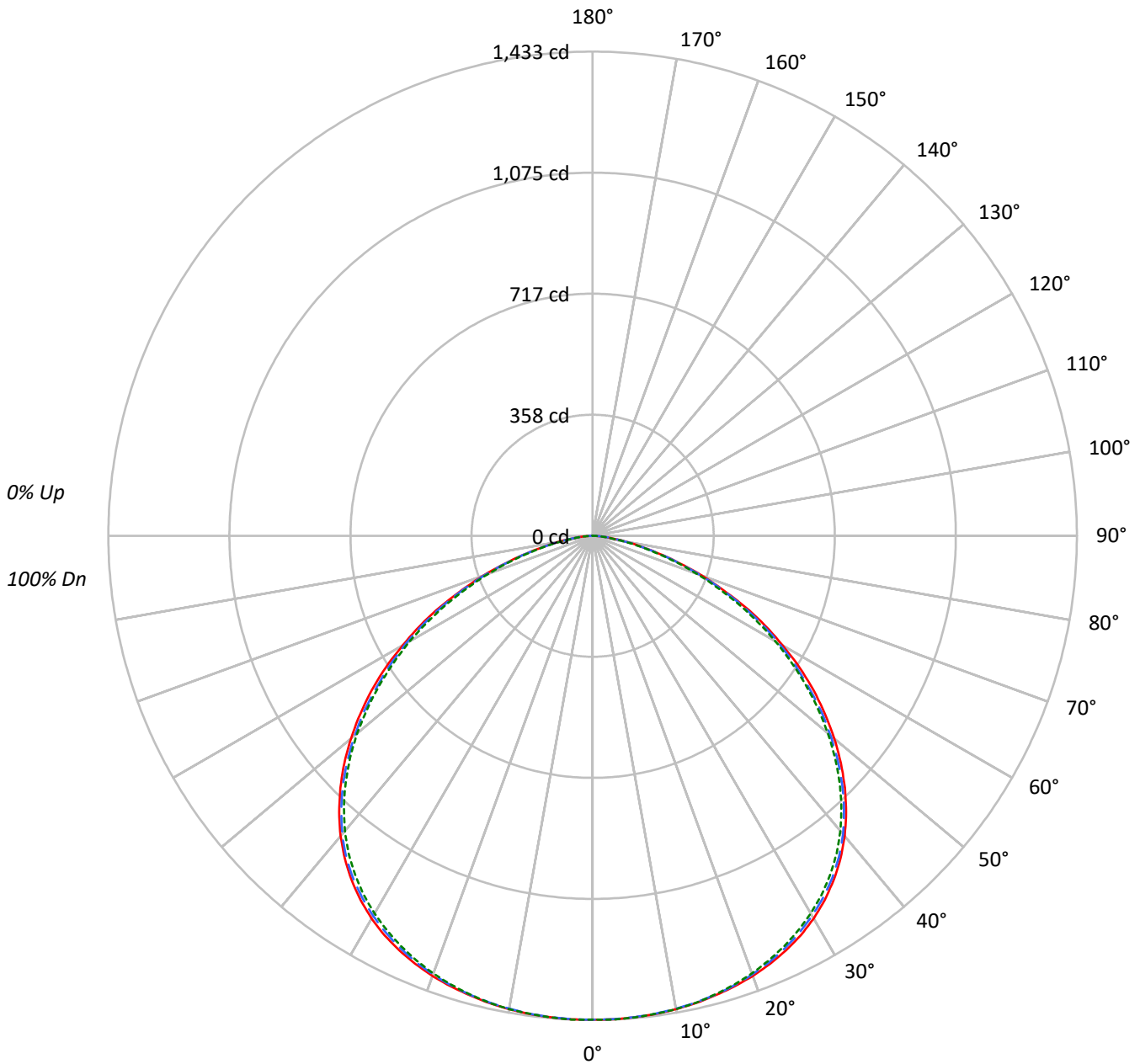
Lumens per Lamp: N/A
Luminaire Lumens: 4167.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
Input Voltage (V): NR
Input Current (Ain): 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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60																			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52																			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31																			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3854	3854	3854
5°	3864	3863	3865
10°	3888	3883	3887
15°	3922	3916	3914
20°	3970	3957	3947
25°	4020	3999	3980
30°	4064	4036	4010
35°	4086	4062	4025
40°	4076	4051	4005
45°	4017	3978	3933
50°	3907	3844	3804
55°	3745	3655	3608
60°	3490	3429	3359
65°	3163	3100	3009
70°	2699	2651	2566
75°	2109	2087	1987
80°	1556	1491	1407
85°	939	939	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	3.3
10°-20°	397.6	9.5
20°-30°	621.4	14.9
30°-40°	772.3	18.5
40°-50°	804.7	19.3
50°-60°	698.3	16.8
60°-70°	480.1	11.5
70°-80°	216.7	5.2
80°-90°	39.7	1.0
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°	1155.2	27.7
0°-40°	1927.6	46.3
0°-60°	3430.5	82.3
0°-90°	4167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1430	1431	1430	1429	1431	136
15°	1408	1408	1406	1405	1405	398
25°	1354	1353	1347	1341	1340	625
35°	1244	1244	1236	1229	1225	777
45°	1056	1056	1045	1037	1034	813
55°	798	794	779	770	769	711
65°	497	495	487	475	473	490
75°	203	204	201	195	191	221
85°	30	30	30	30	28	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.1	1432.1	1432.1	1432.1	1432.1
2.5°	1432.5	1432.5	1431.7	1430.4	1433.3
5°	1430.4	1430.8	1430.0	1428.7	1430.8
7.5°	1427.5	1427.9	1426.7	1425.4	1427.1
10°	1422.9	1422.5	1421.2	1420.4	1422.5
12.5°	1416.3	1415.8	1414.6	1413.8	1415.4
15°	1407.9	1407.9	1405.8	1404.6	1405.0
17.5°	1397.9	1397.9	1395.0	1392.1	1392.9
20°	1386.3	1385.9	1381.7	1378.8	1378.4
22.5°	1371.7	1371.7	1365.9	1362.1	1360.9
25°	1353.8	1353.4	1346.7	1341.3	1340.5
27.5°	1333.4	1332.6	1324.6	1319.2	1317.1
30°	1308.0	1307.1	1298.8	1293.0	1290.5
32.5°	1278.0	1279.2	1269.7	1263.0	1260.5
35°	1243.9	1243.9	1236.4	1229.3	1225.1
37.5°	1204.7	1204.7	1197.6	1190.6	1185.6
40°	1160.2	1160.6	1153.1	1144.3	1140.2
42.5°	1110.2	1111.0	1101.0	1093.9	1089.4
45°	1055.6	1056.0	1045.2	1037.3	1033.6
47.5°	996.5	995.7	983.6	976.9	973.2
50°	933.2	931.5	918.2	912.0	908.6
52.5°	867.0	863.7	852.0	842.8	839.9
55°	798.3	793.7	779.1	770.0	769.1
57.5°	726.7	721.2	709.2	700.4	697.1
60°	648.4	647.1	637.1	626.7	624.2
62.5°	575.1	571.3	562.6	550.1	548.8
65°	496.8	494.7	486.8	475.1	472.6
67.5°	416.0	418.1	411.4	401.0	397.7
70°	343.1	344.4	336.9	327.3	326.1
72.5°	269.8	271.9	265.7	259.4	258.2
75°	202.8	203.6	200.7	195.3	191.1
77.5°	144.1	147.0	143.7	139.9	136.6
80°	100.4	95.8	96.2	94.5	90.8
82.5°	60.4	58.3	57.9	56.2	54.6
85°	30.4	30.0	30.4	30.0	28.3
87.5°	10.0	10.8	11.2	11.2	10.4
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)