

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: P413005

Luminaire Tested: **14PD-45-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-57)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-45-PC3-L927
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

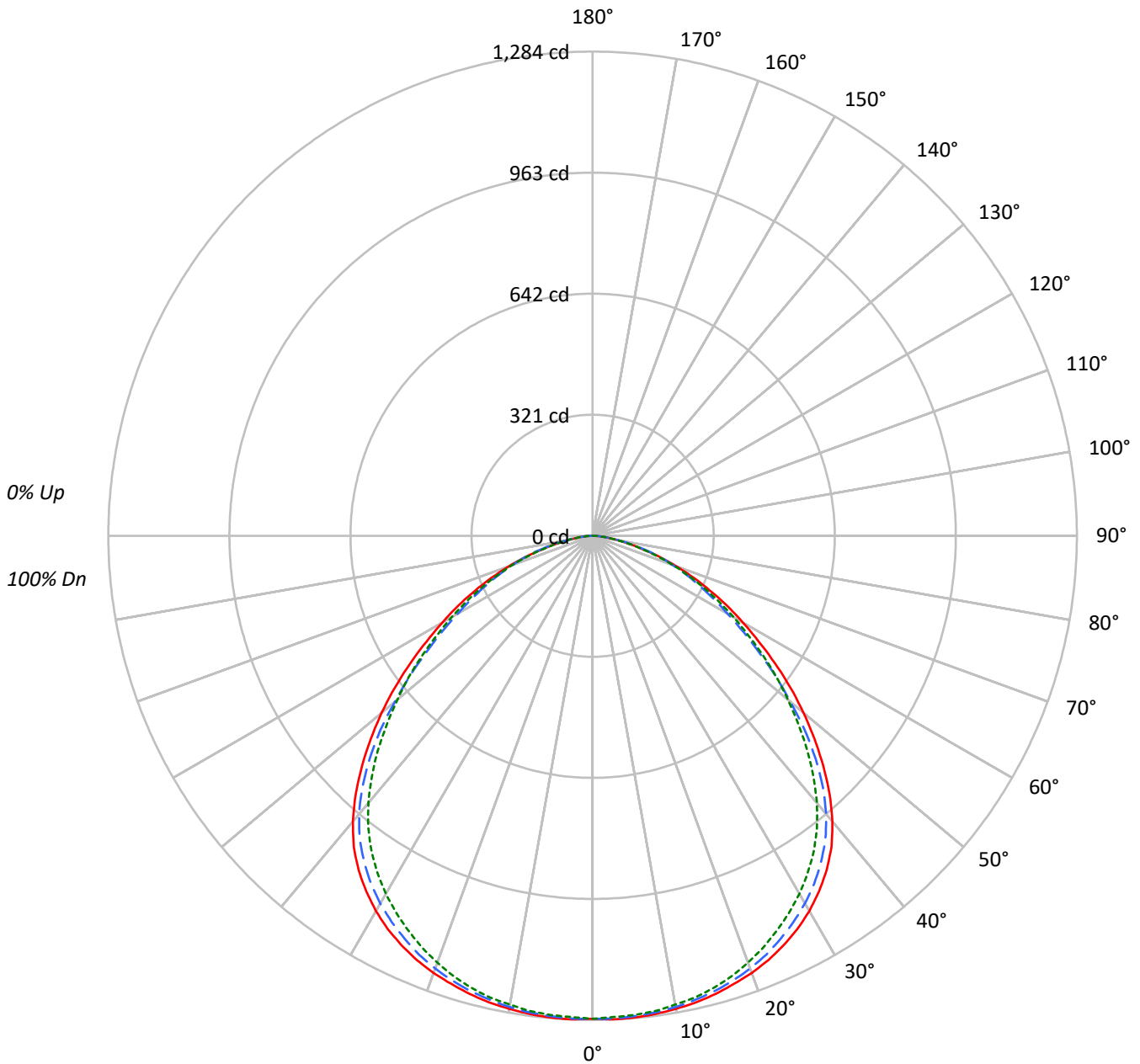
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3310.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73																			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62																			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54																			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	53	49	47																			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41																			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37																			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33																			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30																			
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3447	3447	3447
5°	3464	3455	3446
10°	3481	3467	3450
15°	3505	3483	3458
20°	3533	3497	3450
25°	3559	3501	3431
30°	3571	3498	3407
35°	3555	3469	3357
40°	3474	3385	3249
45°	3293	3180	3064
50°	3057	2862	2828
55°	2768	2522	2578
60°	2475	2221	2319
65°	2183	1992	2060
70°	1858	1765	1778
75°	1429	1506	1387
80°	1048	1100	1038
85°	701	772	753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	3.7
10°-20°	352.8	10.7
20°-30°	542.7	16.4
30°-40°	656.6	19.8
40°-50°	641.1	19.4
50°-60°	495.4	15.0
60°-70°	318.1	9.6
70°-80°	150.1	4.5
80°-90°	31.5	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°	1017.2	30.7
0°-40°	1673.8	50.6
0°-60°	2810.2	84.9
0°-90°	3310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1282	1277	1279	1278	1276	122
15°	1258	1252	1250	1246	1241	356
25°	1198	1189	1179	1164	1155	552
35°	1082	1071	1056	1032	1022	675
45°	865	854	836	814	805	666
55°	590	562	538	538	550	529
65°	343	322	313	309	324	341
75°	137	140	145	133	133	151
85°	23	26	25	24	24	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1280.8	1280.8	1280.8	1280.8	1280.8
2.5°	1283.7	1278.6	1281.4	1281.4	1277.4
5°	1282.5	1276.8	1279.1	1278.0	1275.7
7.5°	1279.1	1273.4	1275.1	1274.0	1271.2
10°	1274.0	1267.8	1268.9	1266.6	1262.7
12.5°	1267.2	1261.5	1260.4	1257.0	1254.1
15°	1258.1	1251.9	1250.2	1245.6	1241.1
17.5°	1246.2	1239.9	1237.1	1230.3	1225.2
20°	1233.7	1226.3	1221.2	1211.0	1204.7
22.5°	1217.8	1209.3	1202.5	1188.3	1182.0
25°	1198.5	1188.8	1179.2	1163.9	1155.4
27.5°	1175.8	1165.6	1154.2	1137.2	1127.5
30°	1149.1	1138.9	1125.8	1106.5	1096.3
32.5°	1117.3	1107.1	1093.5	1071.3	1061.1
35°	1082.1	1070.8	1056.0	1032.2	1021.9
37.5°	1040.1	1027.6	1014.0	987.9	977.1
40°	989.0	978.2	963.5	937.3	924.8
42.5°	930.0	920.3	903.8	878.9	866.9
45°	865.2	854.4	835.7	814.1	805.1
47.5°	797.7	781.8	763.6	744.9	739.8
50°	730.1	709.7	683.6	673.9	675.6
52.5°	660.8	634.7	612.0	604.6	613.2
55°	589.9	561.5	537.6	538.2	549.6
57.5°	522.3	492.8	472.9	472.9	487.7
60°	459.9	432.6	412.7	412.2	430.9
62.5°	402.0	374.1	359.4	359.4	376.4
65°	342.9	322.5	312.8	309.4	323.6
67.5°	288.4	274.2	267.4	263.4	272.5
70°	236.2	227.1	224.3	219.7	226.0
72.5°	184.5	182.2	187.9	177.1	180.0
75°	137.4	139.7	144.8	132.9	133.4
77.5°	98.8	103.3	105.0	99.4	99.4
80°	67.6	73.2	71.0	68.1	67.0
82.5°	43.1	46.0	46.0	44.3	43.1
85°	22.7	26.1	25.0	24.4	24.4
87.5°	8.5	11.9	11.9	11.4	10.8
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)