

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: P412958

Luminaire Tested: **14PD-20-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412958
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-20-PC3-L840
Description: 2000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

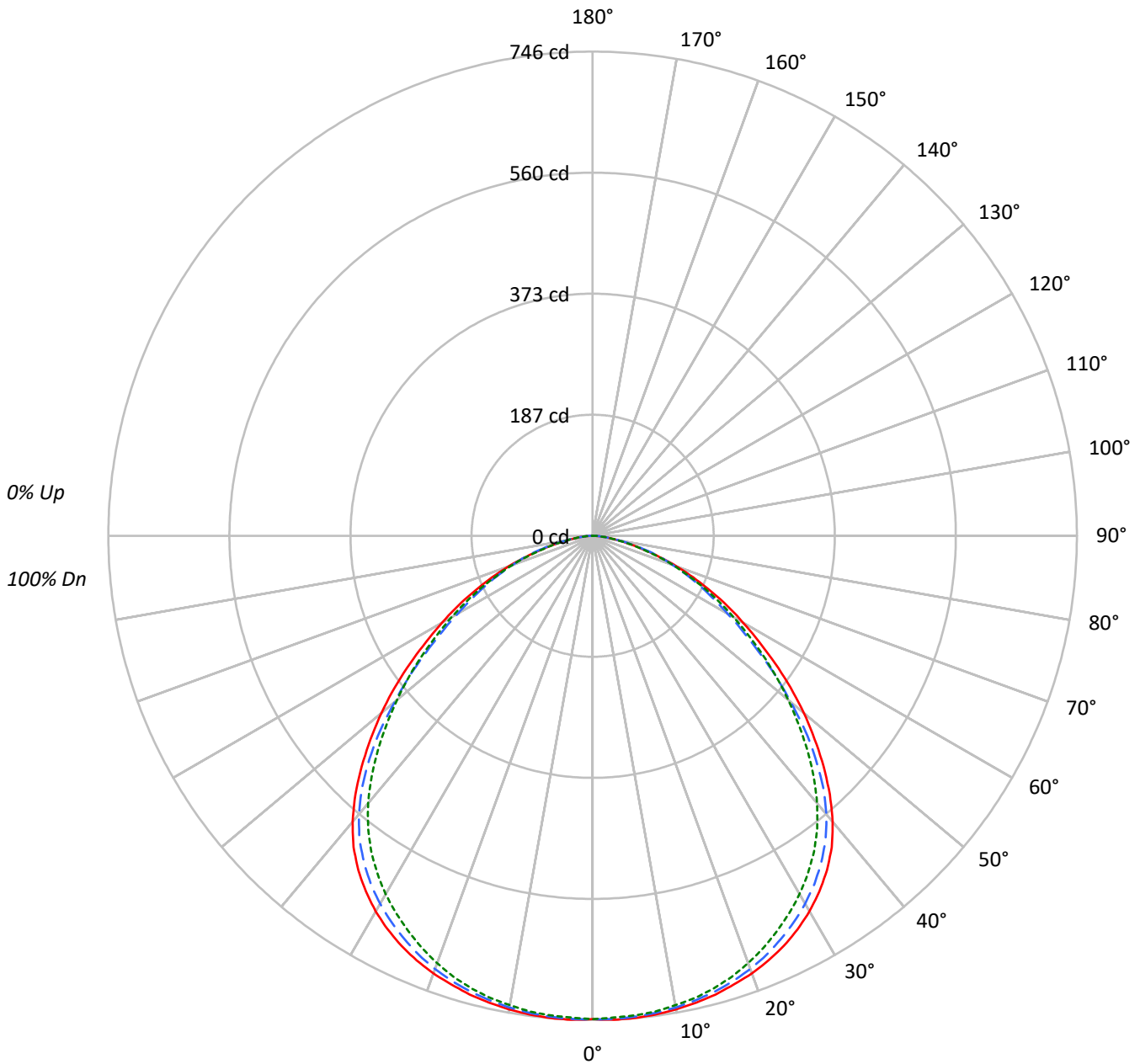
Lumens per Lamp: N/A
Luminaire Lumens: 1925.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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

TEST NUMBER: P412958

CATALOG NUMBER: 14PD-20-PC3-L840

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°	2005	2005	2005
5°	2015	2009	2004
10°	2025	2017	2006
15°	2038	2026	2011
20°	2055	2034	2006
25°	2070	2036	1995
30°	2077	2034	1981
35°	2067	2017	1952
40°	2021	1968	1890
45°	1915	1850	1782
50°	1778	1664	1645
55°	1610	1467	1499
60°	1439	1292	1349
65°	1270	1158	1198
70°	1081	1026	1034
75°	831	875	807
80°	609	640	604
85°	408	448	438



TEST NUMBER: P412958

CATALOG NUMBER: 14PD-20-PC3-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.7
10°-20°	205.2	10.7
20°-30°	315.6	16.4
30°-40°	381.9	19.8
40°-50°	372.8	19.4
50°-60°	288.1	15.0
60°-70°	185.0	9.6
70°-80°	87.3	4.5
80°-90°	18.3	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°	591.6	30.7
0°-40°	973.4	50.6
0°-60°	1634.3	84.9
0°-90°	1925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	745	745	745	745	745	
5°	746	743	744	743	742	71
15°	732	728	727	724	722	207
25°	697	691	686	677	672	321
35°	629	623	614	600	594	392
45°	503	497	486	474	468	387
55°	343	326	313	313	320	308
65°	199	188	182	180	188	199
75°	80	81	84	77	78	88
85°	13	15	14	14	14	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	744.9	744.9	744.9	744.9	744.9
2.5°	746.5	743.6	745.2	745.2	742.9
5°	745.9	742.6	743.9	743.2	741.9
7.5°	743.9	740.6	741.6	740.9	739.3
10°	740.9	737.3	738.0	736.6	734.3
12.5°	737.0	733.7	733.0	731.0	729.4
15°	731.7	728.0	727.1	724.4	721.8
17.5°	724.7	721.1	719.5	715.5	712.5
20°	717.5	713.2	710.2	704.3	700.6
22.5°	708.2	703.3	699.3	691.1	687.4
25°	697.0	691.4	685.8	676.9	671.9
27.5°	683.8	677.9	671.3	661.4	655.7
30°	668.3	662.3	654.7	643.5	637.6
32.5°	649.8	643.9	635.9	623.1	617.1
35°	629.3	622.7	614.1	600.3	594.3
37.5°	604.9	597.6	589.7	574.5	568.2
40°	575.2	568.9	560.3	545.1	537.9
42.5°	540.8	535.2	525.6	511.1	504.2
45°	503.2	496.9	486.0	473.5	468.2
47.5°	463.9	454.7	444.1	433.2	430.2
50°	424.6	412.7	397.5	391.9	392.9
52.5°	384.3	369.1	355.9	351.6	356.6
55°	343.1	326.5	312.7	313.0	319.6
57.5°	303.8	286.6	275.0	275.0	283.6
60°	267.4	251.6	240.0	239.7	250.6
62.5°	233.8	217.6	209.0	209.0	218.9
65°	199.4	187.5	181.9	179.9	188.2
67.5°	167.7	159.5	155.5	153.2	158.5
70°	137.4	132.1	130.4	127.8	131.4
72.5°	107.3	106.0	109.3	103.0	104.7
75°	79.9	81.2	84.2	77.3	77.6
77.5°	57.5	60.1	61.1	57.8	57.8
80°	39.3	42.6	41.3	39.6	39.0
82.5°	25.1	26.7	26.7	25.8	25.1
85°	13.2	15.2	14.5	14.2	14.2
87.5°	5.0	6.9	6.9	6.6	6.3
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)