

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: P412272

Luminaire Tested: **14PD-20-PB1-L830**

Issue Date: 9/15/2020

**Test Information**

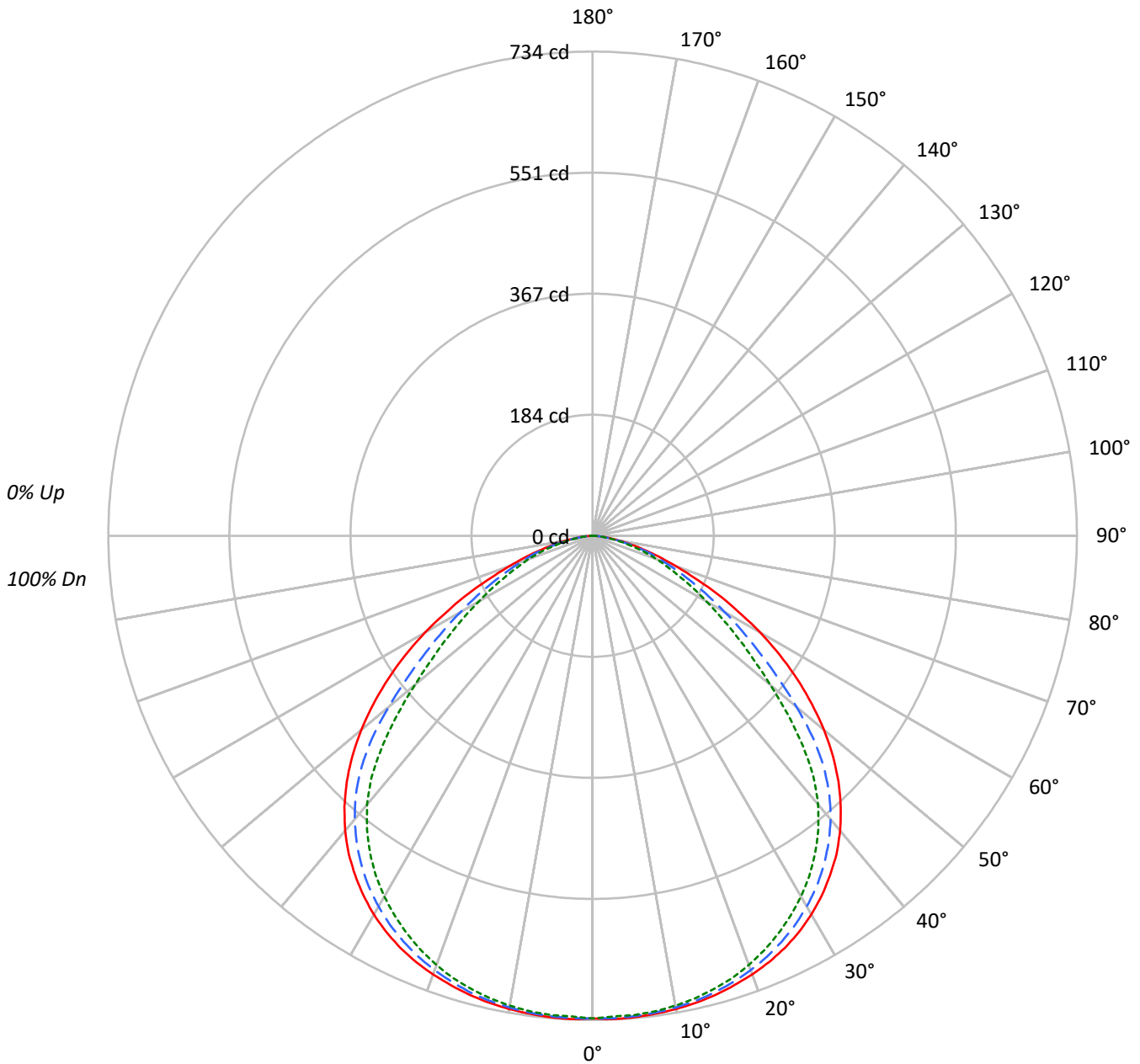
Test Method: LM-79-08  
Report Number: P412272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-20-PB1-L830  
Description: 2000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1886.0 lumens  
Efficiency: N/A  
Efficacy: 108.4 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): 17.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P412272  
CATALOG NUMBER: 14PD-20-PB1-L830

### Luminous Intensity Polar Plot





TEST NUMBER: P412272

CATALOG NUMBER: 14PD-20-PB1-L830

**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°	1969	1969	1969
5°	1979	1975	1970
10°	1991	1984	1976
15°	2007	1996	1982
20°	2026	2007	1982
25°	2047	2015	1976
30°	2060	2017	1962
35°	2062	2006	1932
40°	2050	1971	1868
45°	2006	1885	1715
50°	1917	1689	1470
55°	1775	1448	1255
60°	1576	1243	1073
65°	1323	1060	919
70°	1049	901	810
75°	820	735	645
80°	611	549	494
85°	404	358	327



TEST NUMBER: P412272

CATALOG NUMBER: 14PD-20-PB1-L830

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.6	3.7
10°-20°	202.2	10.7
20°-30°	312.2	16.6
30°-40°	380.0	20.1
40°-50°	376.0	19.9
50°-60°	283.3	15.0
60°-70°	170.2	9.0
70°-80°	76.7	4.1
80°-90°	15.7	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°	584.0	31.0
0°-40°	964.0	51.1
0°-60°	1623.3	86.1
0°-90°	1886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1886.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	732	732	732	732	732	
5°	733	730	731	730	729	70
15°	720	717	717	714	711	204
25°	689	684	678	669	666	318
35°	628	621	610	596	588	392
45°	527	518	495	465	451	405
55°	378	352	309	278	268	337
65°	208	188	166	149	144	206
75°	79	75	71	64	62	86
85°	13	14	12	11	11	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	731.7	731.7	731.7	731.7	731.7
2.5°	733.5	730.4	732.0	731.7	729.2
5°	732.6	729.8	731.0	730.4	729.2
7.5°	731.0	728.2	729.2	728.2	727.0
10°	728.5	725.4	726.0	724.1	723.2
12.5°	725.1	721.3	722.0	719.5	718.2
15°	720.4	716.9	716.6	713.8	711.3
17.5°	714.4	711.0	709.1	706.0	703.2
20°	707.6	703.2	700.7	695.0	692.2
22.5°	699.4	694.7	690.7	682.8	680.0
25°	689.4	684.1	678.5	669.4	665.6
27.5°	677.2	671.6	665.0	655.0	649.4
30°	663.1	657.2	649.0	637.5	631.5
32.5°	646.5	640.0	631.2	617.4	611.2
35°	627.8	620.9	610.5	595.5	588.0
37.5°	607.4	599.6	587.4	569.2	561.7
40°	583.6	575.8	561.1	540.1	531.7
42.5°	556.7	548.9	531.1	506.0	495.7
45°	527.0	517.9	495.4	465.0	450.6
47.5°	493.8	482.2	452.8	415.6	401.2
50°	457.8	442.5	403.4	365.2	351.1
52.5°	418.7	399.3	354.2	320.1	306.7
55°	378.3	351.7	308.6	278.5	267.6
57.5°	336.4	304.5	268.5	242.2	231.9
60°	292.9	261.9	231.0	206.9	199.3
62.5°	248.5	223.1	197.5	175.2	171.2
65°	207.8	188.4	166.5	149.0	144.3
67.5°	166.8	155.8	138.9	127.1	121.7
70°	133.3	126.1	114.5	104.8	103.0
72.5°	104.2	99.5	95.1	86.7	83.2
75°	78.9	74.8	70.7	64.2	62.0
77.5°	57.0	55.4	51.9	47.6	46.6
80°	39.4	39.4	35.4	32.9	31.9
82.5°	24.4	26.6	22.2	20.7	19.7
85°	13.1	13.5	11.6	11.0	10.6
87.5°	5.0	5.6	5.3	4.4	4.4
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)