

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: P412275

Luminaire Tested: **14PD-20-PB1-L850**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412275  
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-L850  
Description: 2000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

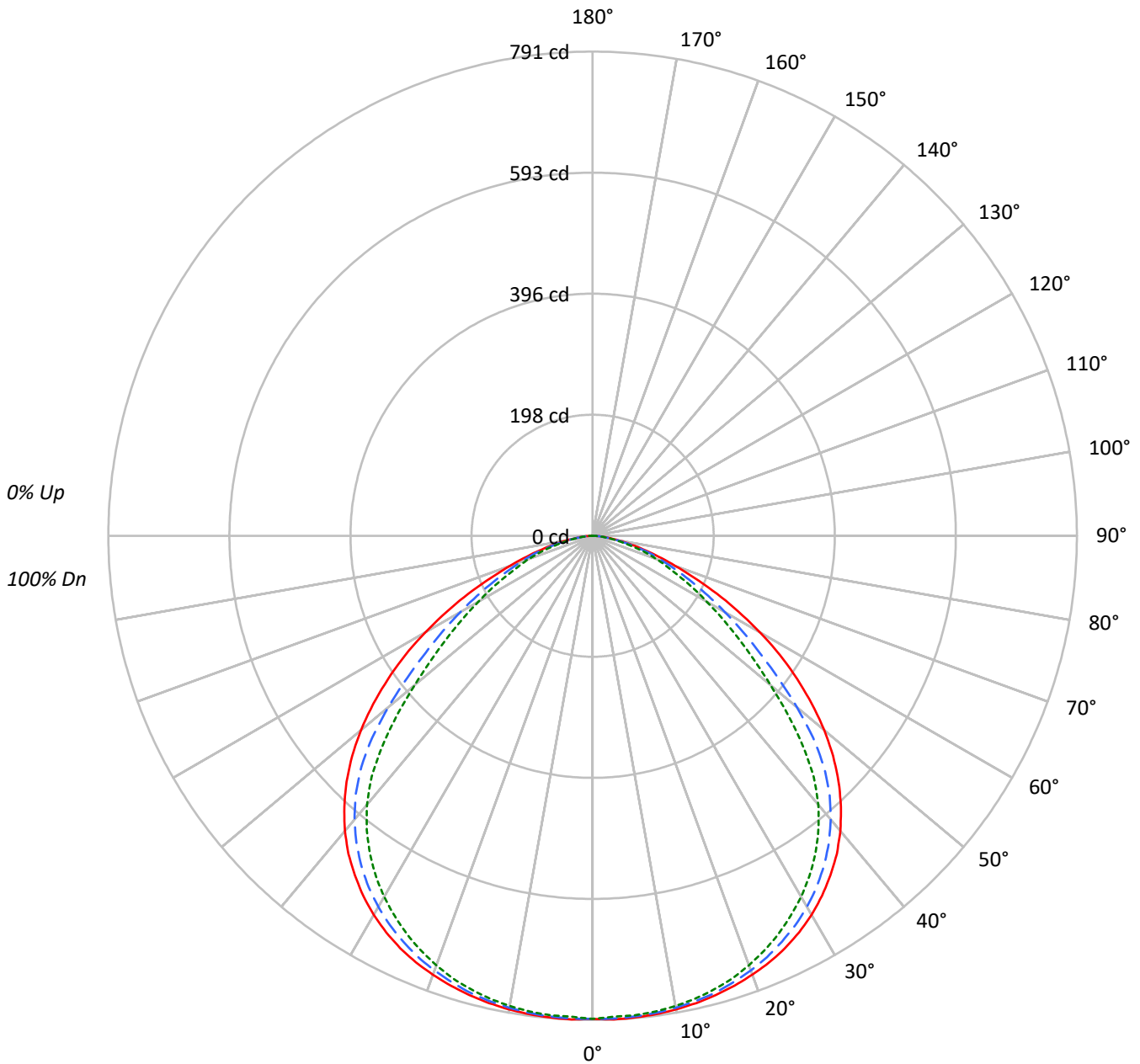
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2034.0 lumens  
Efficiency: N/A  
Efficacy: 116.9 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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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
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°	2123	2123	2123
5°	2134	2130	2124
10°	2147	2140	2131
15°	2164	2153	2137
20°	2185	2164	2138
25°	2208	2173	2132
30°	2222	2175	2116
35°	2224	2163	2083
40°	2211	2126	2014
45°	2163	2033	1850
50°	2067	1821	1585
55°	1914	1561	1354
60°	1700	1341	1157
65°	1427	1143	991
70°	1131	972	873
75°	884	793	695
80°	659	590	533
85°	438	386	355



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.0	3.7
10°-20°	218.1	10.7
20°-30°	336.7	16.6
30°-40°	409.8	20.1
40°-50°	405.5	19.9
50°-60°	305.5	15.0
60°-70°	183.6	9.0
70°-80°	82.7	4.1
80°-90°	16.9	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°	629.8	31.0
0°-40°	1039.6	51.1
0°-60°	1750.7	86.1
0°-90°	2034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2034.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	790	787	788	788	786	75
15°	777	773	773	770	767	220
25°	744	738	732	722	718	343
35°	677	670	658	642	634	423
45°	568	559	534	502	486	437
55°	408	379	333	300	289	363
65°	224	203	180	161	156	223
75°	85	81	76	69	67	93
85°	14	14	12	12	12	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	789.1	789.1	789.1	789.1	789.1
2.5°	791.1	787.7	789.4	789.1	786.4
5°	790.1	787.0	788.4	787.7	786.4
7.5°	788.4	785.4	786.4	785.4	784.0
10°	785.7	782.3	783.0	781.0	780.0
12.5°	782.0	777.9	778.6	775.9	774.6
15°	776.9	773.2	772.9	769.8	767.1
17.5°	770.5	766.8	764.8	761.4	758.4
20°	763.1	758.4	755.7	749.6	746.5
22.5°	754.3	749.2	744.9	736.4	733.4
25°	743.5	737.8	731.7	721.9	717.9
27.5°	730.3	724.3	717.2	706.4	700.3
30°	715.2	708.7	700.0	687.5	681.1
32.5°	697.3	690.2	680.7	665.9	659.1
35°	677.0	669.6	658.5	642.3	634.2
37.5°	655.1	646.6	633.5	613.9	605.8
40°	629.4	621.0	605.1	582.5	573.4
42.5°	600.4	592.0	572.7	545.7	534.6
45°	568.3	558.6	534.3	501.5	486.0
47.5°	532.6	520.1	488.4	448.2	432.7
50°	493.8	477.2	435.0	393.9	378.7
52.5°	451.6	430.6	382.0	345.3	330.7
55°	408.0	379.3	332.8	300.4	288.6
57.5°	362.8	328.4	289.6	261.2	250.1
60°	315.9	282.5	249.1	223.1	215.0
62.5°	268.0	240.6	213.0	189.0	184.6
65°	224.1	203.2	179.5	160.6	155.6
67.5°	179.9	168.1	149.8	137.0	131.3
70°	143.8	136.0	123.5	113.1	111.0
72.5°	112.4	107.3	102.6	93.5	89.8
75°	85.0	80.7	76.3	69.2	66.8
77.5°	61.4	59.7	56.0	51.3	50.3
80°	42.5	42.5	38.1	35.4	34.4
82.5°	26.3	28.7	24.0	22.3	21.3
85°	14.2	14.5	12.5	11.8	11.5
87.5°	5.4	6.1	5.7	4.7	4.7
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)