

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: P412374

Luminaire Tested: **22PD-30-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-30-PB1-L850
Description: 3000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

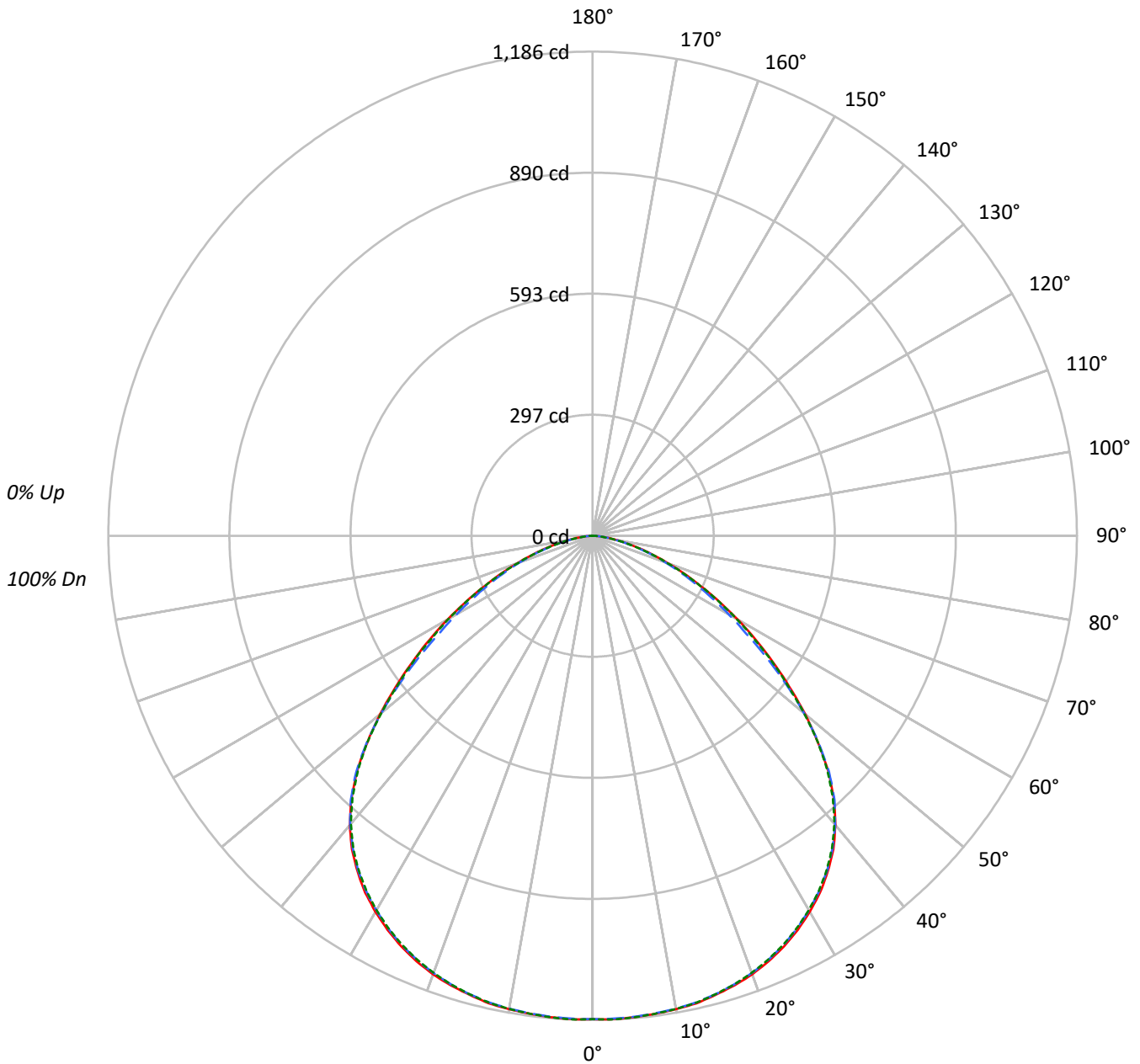
Lumens per Lamp: N/A
Luminaire Lumens: 3109.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.6
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	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73																			
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47																			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42																			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37																			
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33																			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30																			
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3187	3187	3187
5°	3197	3194	3198
10°	3218	3214	3216
15°	3244	3239	3239
20°	3274	3264	3262
25°	3294	3284	3281
30°	3305	3292	3289
35°	3299	3289	3283
40°	3249	3245	3235
45°	3106	3116	3092
50°	2844	2828	2825
55°	2527	2438	2510
60°	2203	2069	2189
65°	1868	1768	1858
70°	1544	1481	1530
75°	1249	1169	1199
80°	902	874	868
85°	587	587	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	3.6
10°-20°	328.6	10.6
20°-30°	509.9	16.4
30°-40°	625.3	20.1
40°-50°	625.1	20.1
50°-60°	473.5	15.2
60°-70°	284.0	9.1
70°-80°	125.0	4.0
80°-90°	24.8	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°	951.2	30.6
0°-40°	1576.6	50.7
0°-60°	2675.2	86.0
0°-90°	3109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1184	1182	1182	1182	1184	113
15°	1164	1163	1163	1162	1163	329
25°	1110	1107	1106	1104	1105	511
35°	1004	1004	1001	1000	999	627
45°	816	817	819	817	812	625
55°	539	527	520	527	535	483
65°	293	283	278	282	292	293
75°	120	118	112	114	115	128
85°	19	20	19	18	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.2	1184.2	1184.2	1184.2	<i>1184.2</i>
2.5°	<i>1185.3</i>	<i>1183.5</i>	<i>1183.8</i>	<i>1183.8</i>	<i>1186.0</i>
5°	1183.5	1182.0	1182.4	1182.0	<i>1183.8</i>
7.5°	1180.9	1179.5	1179.8	1179.5	<i>1180.6</i>
10°	1177.6	1176.2	1176.2	1175.4	<i>1176.9</i>
12.5°	1173.2	1171.4	1170.7	1170.3	<i>1171.4</i>
15°	1164.4	1163.3	1162.6	1161.9	<i>1162.6</i>
17.5°	1154.9	1153.1	1152.4	1150.9	<i>1152.4</i>
20°	1143.2	1140.6	1139.9	1138.8	<i>1139.2</i>
22.5°	1127.8	1125.6	1124.5	1122.7	<i>1123.4</i>
25°	1109.5	1107.3	1106.2	1104.4	<i>1105.1</i>
27.5°	1088.3	1086.8	1084.2	1082.8	<i>1083.2</i>
30°	1063.7	1062.3	1059.3	1058.6	<i>1058.6</i>
32.5°	1036.6	1034.8	1032.3	1031.5	<i>1031.2</i>
35°	1004.1	1003.7	1001.1	1000.4	<i>999.3</i>
37.5°	968.5	967.8	964.9	964.1	<i>963.0</i>
40°	925.0	924.2	923.9	922.4	<i>920.9</i>
42.5°	874.4	875.5	876.3	873.3	<i>870.4</i>
45°	816.2	817.3	818.8	816.6	<i>812.5</i>
47.5°	748.1	752.5	750.3	751.8	<i>747.7</i>
50°	679.3	679.3	675.6	677.1	<i>674.9</i>
52.5°	607.1	601.3	596.9	599.8	<i>602.7</i>
55°	538.6	526.9	519.6	526.6	<i>535.0</i>
57.5°	473.1	459.2	445.6	456.6	<i>466.9</i>
60°	409.4	393.3	384.5	392.5	<i>406.8</i>
62.5°	349.0	337.2	328.5	334.7	<i>346.8</i>
65°	293.3	283.1	277.6	282.3	<i>291.8</i>
67.5°	242.4	235.5	230.0	234.0	<i>241.3</i>
70°	196.3	194.4	188.2	190.0	<i>194.4</i>
72.5°	154.2	153.8	148.3	149.8	<i>152.3</i>
75°	120.1	117.5	112.4	114.2	<i>115.3</i>
77.5°	85.0	86.1	81.3	82.4	<i>82.4</i>
80°	58.2	60.1	56.4	55.7	<i>56.0</i>
82.5°	37.0	37.0	36.6	36.3	<i>35.2</i>
85°	19.0	19.8	19.0	18.3	<i>18.3</i>
87.5°	7.3	7.3	7.3	7.0	<i>6.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)