

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: P412491

Luminaire Tested: **24PD-30-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-30-PB1-L850
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

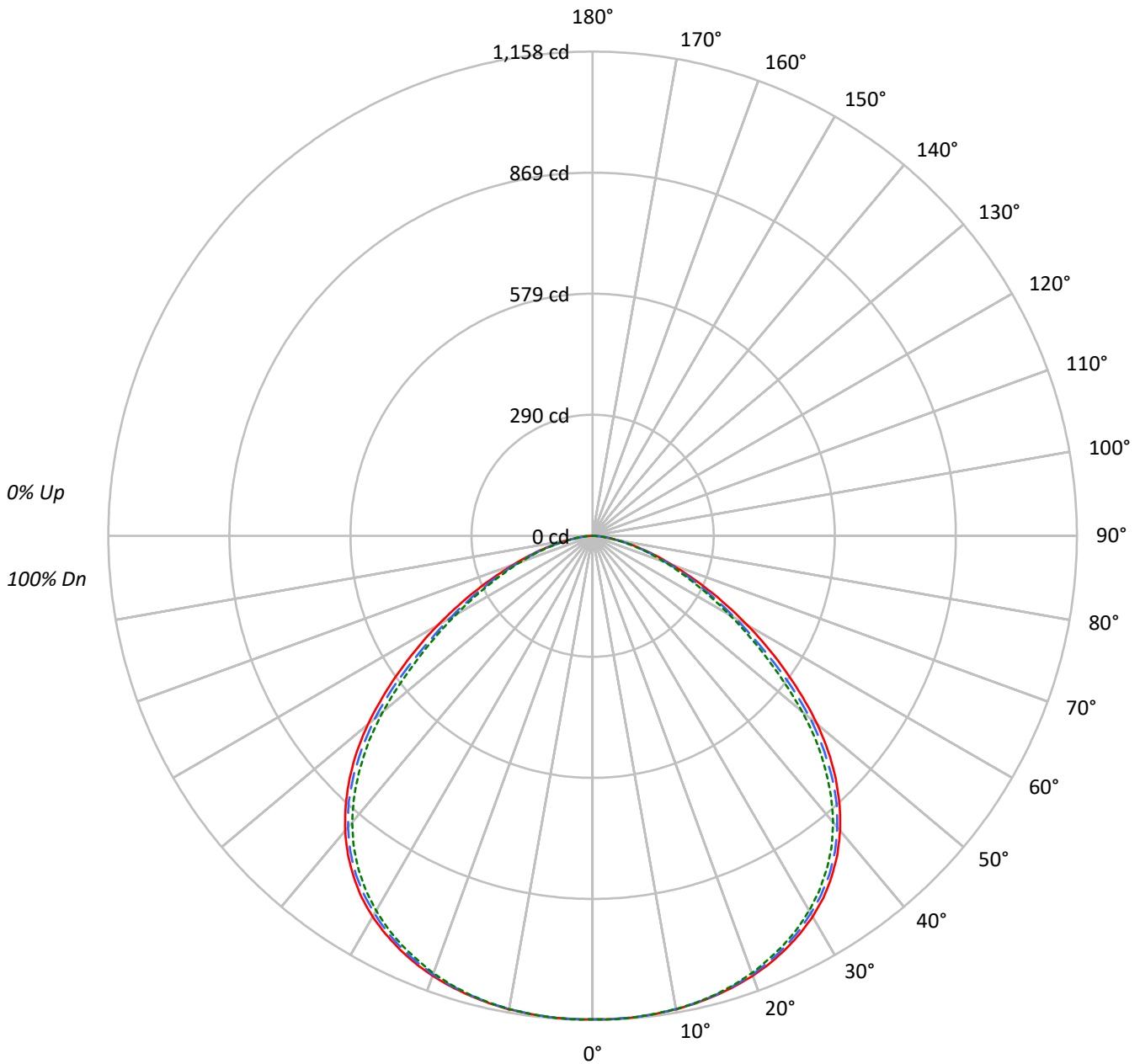
Lumens per Lamp: N/A
Luminaire Lumens: 3077.0 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.3
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: P412491

CATALOG NUMBER: 24PD-30-PB1-L850

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			
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	75	73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47			
6	72	60	51	45	70	59	51	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	35	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	53	41	34	29	40	33	29	39	33	29	39	33	29	27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1556	1556	1556
5°	1561	1561	1561
10°	1571	1570	1570
15°	1586	1584	1582
20°	1604	1598	1594
25°	1620	1612	1603
30°	1634	1621	1608
35°	1636	1622	1602
40°	1617	1598	1571
45°	1565	1536	1496
50°	1467	1422	1370
55°	1319	1240	1189
60°	1148	1056	1016
65°	966	894	855
70°	787	747	718
75°	631	609	583
80°	484	446	435
85°	303	293	293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.6
10°-20°	321.3	10.4
20°-30°	500.6	16.3
30°-40°	615.9	20.0
40°-50°	618.6	20.1
50°-60°	476.8	15.5
60°-70°	283.0	9.2
70°-80°	126.0	4.1
80°-90°	24.6	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°	932.1	30.3
0°-40°	1547.9	50.3
0°-60°	2643.3	85.9
0°-90°	3077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1156	1156	1156	1154	1156	110
15°	1138	1138	1137	1135	1136	322
25°	1091	1091	1086	1081	1080	503
35°	996	995	988	979	975	622
45°	822	820	807	794	786	631
55°	562	551	529	513	507	503
65°	303	290	281	270	268	303
75°	121	119	117	113	112	131
85°	20	19	19	18	19	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.4	1156.4	1156.4	1156.4	<i>1156.4</i>
2.5°	<i>1157.0</i>	<i>1156.7</i>	<i>1156.7</i>	<i>1155.5</i>	<i>1157.9</i>
5°	1155.8	1156.1	1155.8	1154.5	<i>1155.8</i>
7.5°	1153.3	1153.6	1153.0	1151.8	<i>1153.0</i>
10°	1150.2	1150.2	1149.0	1148.4	<i>1149.3</i>
12.5°	1145.0	1145.0	1143.8	1142.9	<i>1143.8</i>
15°	1138.3	1138.3	1136.8	1134.9	<i>1135.8</i>
17.5°	1130.0	1130.0	1127.6	1125.1	<i>1125.7</i>
20°	1119.9	1119.6	1116.2	1112.9	<i>1113.2</i>
22.5°	1107.0	1106.7	1102.4	1098.4	<i>1097.2</i>
25°	1091.4	1091.1	1085.9	1081.0	<i>1079.8</i>
27.5°	1073.3	1072.1	1066.3	1060.8	<i>1059.5</i>
30°	1051.9	1050.9	1043.3	1037.8	<i>1035.3</i>
32.5°	1027.0	1024.6	1017.5	1010.8	<i>1007.4</i>
35°	996.1	994.6	987.5	979.2	<i>975.2</i>
37.5°	961.1	959.6	951.9	942.8	<i>938.2</i>
40°	920.7	919.5	910.0	900.5	<i>894.6</i>
42.5°	874.1	873.2	863.1	849.9	<i>843.8</i>
45°	822.3	820.2	807.3	793.8	<i>786.4</i>
47.5°	764.7	761.0	745.4	732.5	<i>724.5</i>
50°	700.9	696.0	679.2	662.6	<i>654.4</i>
52.5°	632.0	623.4	605.9	586.9	<i>579.0</i>
55°	562.1	551.4	528.7	512.8	<i>506.9</i>
57.5°	493.8	478.1	456.7	445.3	<i>439.5</i>
60°	426.6	409.5	392.6	381.6	<i>377.6</i>
62.5°	362.6	348.2	333.8	322.7	<i>320.3</i>
65°	303.4	290.2	280.7	270.0	<i>268.5</i>
67.5°	248.3	242.1	233.5	224.3	<i>223.1</i>
70°	200.1	197.7	190.0	184.5	<i>182.4</i>
72.5°	159.7	157.2	151.7	147.7	<i>147.1</i>
75°	121.4	118.9	117.1	113.1	<i>112.2</i>
77.5°	86.4	86.7	85.2	83.1	<i>83.7</i>
80°	62.5	58.8	57.6	56.4	<i>56.1</i>
82.5°	38.3	36.2	35.2	34.9	<i>35.6</i>
85°	19.6	18.7	19.0	18.1	<i>19.0</i>
87.5°	6.7	6.7	7.0	6.7	<i>7.4</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)