

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: P413175

Luminaire Tested: **24PD-30-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-30-PC3-L850
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

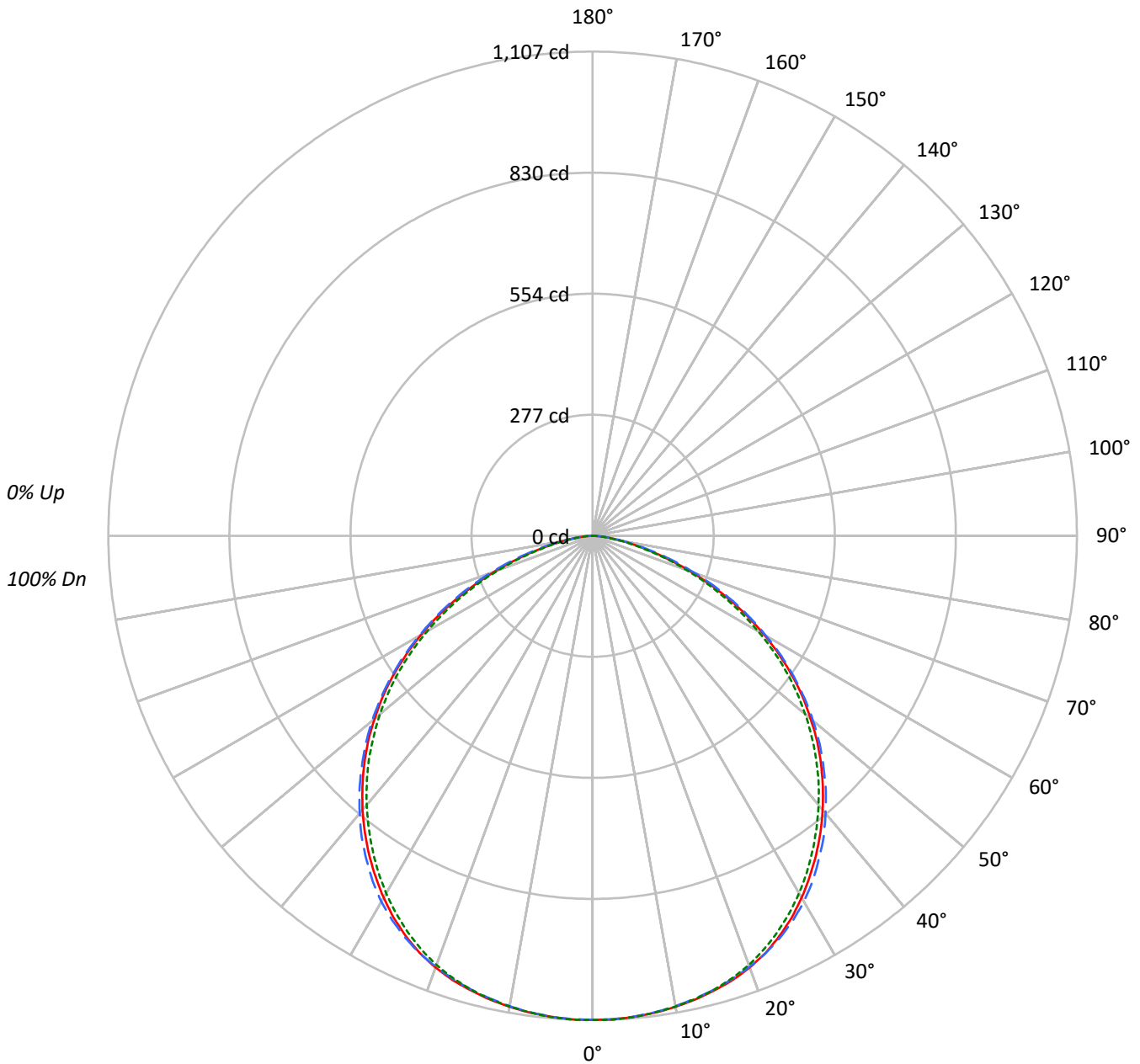
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3025.0 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
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

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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			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28			
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1489	1489	1489
5°	1491	1490	1491
10°	1494	1492	1493
15°	1499	1496	1496
20°	1504	1502	1495
25°	1500	1505	1484
30°	1485	1500	1466
35°	1463	1481	1441
40°	1437	1454	1411
45°	1405	1420	1376
50°	1361	1376	1328
55°	1305	1317	1266
60°	1218	1232	1176
65°	1098	1125	1055
70°	932	973	895
75°	722	775	688
80°	537	560	487
85°	332	355	307



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	3.5
10°-20°	303.5	10.0
20°-30°	464.8	15.4
30°-40°	559.1	18.5
40°-50°	570.2	18.8
50°-60°	494.3	16.3
60°-70°	342.7	11.3
70°-80°	156.5	5.2
80°-90°	28.9	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°	873.3	28.9
0°-40°	1432.4	47.4
0°-60°	2496.9	82.5
0°-90°	3025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1104	1104	1103	1103	1104	105
15°	1076	1076	1074	1073	1074	304
25°	1010	1013	1014	1005	1000	465
35°	891	900	902	890	877	557
45°	738	747	746	736	723	569
55°	556	560	561	548	540	496
65°	345	352	354	342	331	341
75°	139	146	149	144	132	152
85°	22	22	23	22	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1106.7	1106.7	1106.7	1106.7	<i>1106.7</i>
2.5°	<i>1106.7</i>	<i>1106.7</i>	<i>1106.1</i>	<i>1105.5</i>	<i>1107.3</i>
5°	1103.9	1103.9	1103.3	1102.7	<i>1104.2</i>
7.5°	1099.6	1099.3	1098.7	1098.1	<i>1099.0</i>
10°	1093.5	1093.2	1092.0	1091.7	<i>1092.9</i>
12.5°	1085.9	1085.5	1083.7	1083.7	<i>1084.6</i>
15°	1076.0	1075.7	1073.9	1073.0	<i>1074.2</i>
17.5°	1065.0	1064.7	1062.6	1060.1	<i>1060.7</i>
20°	1050.3	1050.3	1048.8	1045.1	<i>1044.2</i>
22.5°	1032.5	1033.4	1033.4	1026.4	<i>1023.6</i>
25°	1010.1	1012.9	1013.8	1004.9	<i>999.7</i>
27.5°	984.7	989.0	991.4	980.1	<i>973.3</i>
30°	955.6	962.6	965.7	953.4	<i>943.6</i>
32.5°	923.7	932.6	936.2	924.3	<i>911.7</i>
35°	890.6	900.1	901.9	890.3	<i>877.1</i>
37.5°	855.3	865.1	867.6	857.2	<i>840.9</i>
40°	818.2	828.0	828.0	819.4	<i>803.5</i>
42.5°	779.0	789.4	789.1	778.7	<i>764.3</i>
45°	738.2	747.4	746.2	736.1	<i>722.9</i>
47.5°	696.2	702.0	703.6	691.6	<i>679.0</i>
50°	650.2	656.0	657.6	644.1	<i>634.3</i>
52.5°	604.9	608.5	610.7	595.0	<i>588.0</i>
55°	556.4	559.8	561.3	547.5	<i>539.9</i>
57.5°	505.2	509.5	511.4	497.6	<i>489.0</i>
60°	452.8	457.4	458.0	445.1	<i>437.2</i>
62.5°	399.5	405.6	406.8	393.9	<i>384.4</i>
65°	344.9	352.2	353.5	341.5	<i>331.4</i>
67.5°	290.3	300.1	300.4	290.6	<i>278.7</i>
70°	237.0	247.7	247.4	239.1	<i>227.5</i>
72.5°	186.1	195.9	198.0	190.4	<i>179.0</i>
75°	138.9	146.5	149.0	144.1	<i>132.4</i>
77.5°	98.7	105.8	107.9	103.3	<i>94.7</i>
80°	69.3	69.6	72.3	68.7	<i>62.8</i>
82.5°	42.9	42.3	43.2	41.7	<i>38.3</i>
85°	21.5	22.1	23.0	21.8	<i>19.9</i>
87.5°	7.4	7.7	8.3	8.3	<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)