

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: P412520

Luminaire Tested: **24PD-45-PB1-L930**

Issue Date: 9/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412520  
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-45-PB1-L930  
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

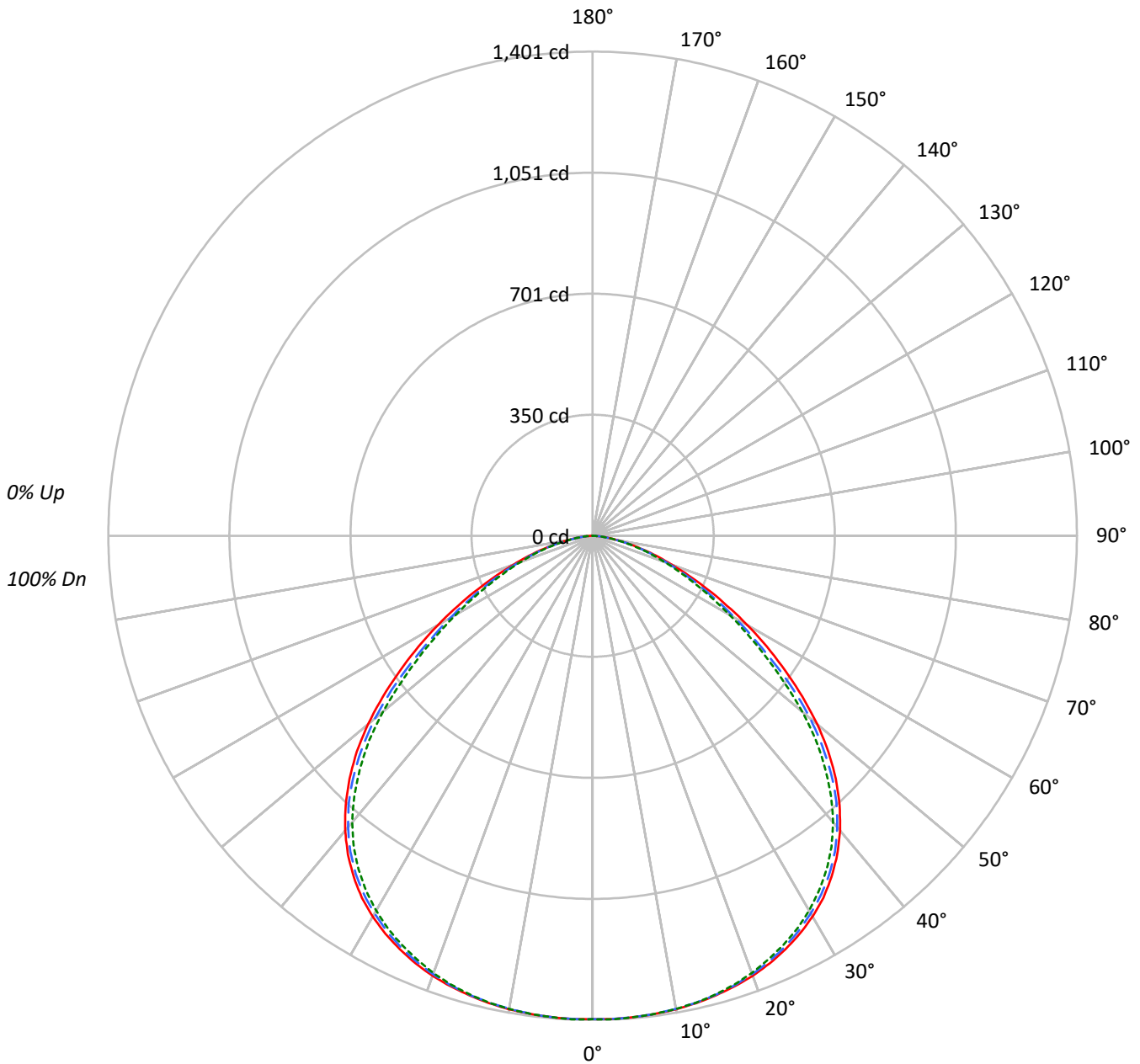
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3722.0 lumens  
Efficiency: N/A  
Efficacy: 112.8 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): 33  
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	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°	1882	1882	1882
5°	1888	1888	1888
10°	1901	1899	1899
15°	1918	1915	1914
20°	1940	1933	1928
25°	1960	1950	1939
30°	1977	1961	1946
35°	1979	1962	1938
40°	1956	1933	1901
45°	1893	1858	1810
50°	1775	1720	1657
55°	1595	1500	1438
60°	1389	1278	1229
65°	1168	1081	1034
70°	952	904	868
75°	763	736	705
80°	586	540	525
85°	366	355	355



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.2	3.6
10°-20°	388.7	10.4
20°-30°	605.6	16.3
30°-40°	745.0	20.0
40°-50°	748.3	20.1
50°-60°	576.7	15.5
60°-70°	342.4	9.2
70°-80°	152.4	4.1
80°-90°	29.8	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°	1127.5	30.3
0°-40°	1872.4	50.3
0°-60°	3197.4	85.9
0°-90°	3722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3722.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1398	1398	1398	1397	1398	133
15°	1377	1377	1375	1373	1374	389
25°	1320	1320	1314	1308	1306	609
35°	1205	1203	1194	1184	1180	752
45°	995	992	976	960	951	763
55°	680	667	640	620	613	608
65°	367	351	340	327	325	367
75°	147	144	142	137	136	159
85°	24	23	23	22	23	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1398.8	1398.8	1398.8	1398.8	<i>1398.8</i>
2.5°	<i>1399.5</i>	<i>1399.1</i>	<i>1399.1</i>	<i>1397.7</i>	<i>1400.6</i>
5°	1398.0	1398.4	1398.0	1396.6	<i>1398.0</i>
7.5°	1395.1	1395.4	1394.7	1393.2	<i>1394.7</i>
10°	1391.4	1391.4	1389.9	1389.1	<i>1390.2</i>
12.5°	1385.1	1385.1	1383.6	1382.5	<i>1383.6</i>
15°	1376.9	1376.9	1375.0	1372.8	<i>1373.9</i>
17.5°	1366.9	1366.9	1363.9	1361.0	<i>1361.7</i>
20°	1354.7	1354.3	1350.2	1346.1	<i>1346.5</i>
22.5°	1339.1	1338.7	1333.5	1328.7	<i>1327.2</i>
25°	1320.2	1319.8	1313.5	1307.6	<i>1306.1</i>
27.5°	1298.3	1296.8	1289.8	1283.1	<i>1281.6</i>
30°	1272.4	1271.2	1262.0	1255.3	<i>1252.3</i>
32.5°	1242.3	1239.4	1230.8	1222.7	<i>1218.6</i>
35°	1204.9	1203.0	1194.5	1184.5	<i>1179.7</i>
37.5°	1162.6	1160.8	1151.5	1140.4	<i>1134.8</i>
40°	1113.7	1112.2	1100.7	1089.2	<i>1082.2</i>
42.5°	1057.3	1056.2	1044.0	1028.0	<i>1020.6</i>
45°	994.7	992.1	976.5	960.2	<i>951.3</i>
47.5°	925.0	920.5	901.6	886.1	<i>876.4</i>
50°	847.9	841.9	821.5	801.5	<i>791.5</i>
52.5°	764.5	754.1	732.9	710.0	<i>700.3</i>
55°	679.9	666.9	639.5	620.2	<i>613.2</i>
57.5°	597.3	578.3	552.4	538.7	<i>531.6</i>
60°	516.1	495.3	474.9	461.6	<i>456.7</i>
62.5°	438.6	421.2	403.7	390.4	<i>387.4</i>
65°	367.0	351.1	339.6	326.6	<i>324.8</i>
67.5°	300.3	292.9	282.5	271.4	<i>269.9</i>
70°	242.1	239.1	229.9	223.2	<i>220.6</i>
72.5°	193.2	190.2	183.5	178.7	<i>178.0</i>
75°	146.8	143.8	141.6	136.8	<i>135.7</i>
77.5°	104.5	104.9	103.1	100.5	<i>101.2</i>
80°	75.6	71.2	69.7	68.2	<i>67.8</i>
82.5°	46.3	43.7	42.6	42.3	<i>43.0</i>
85°	23.7	22.6	23.0	21.9	<i>23.0</i>
87.5°	8.2	8.2	8.5	8.2	<i>8.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







(END OF REPORT)