

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: P412500

Luminaire Tested: **24PD-35-PB1-L850**

Issue Date: 9/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412500  
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-35-PB1-L850  
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

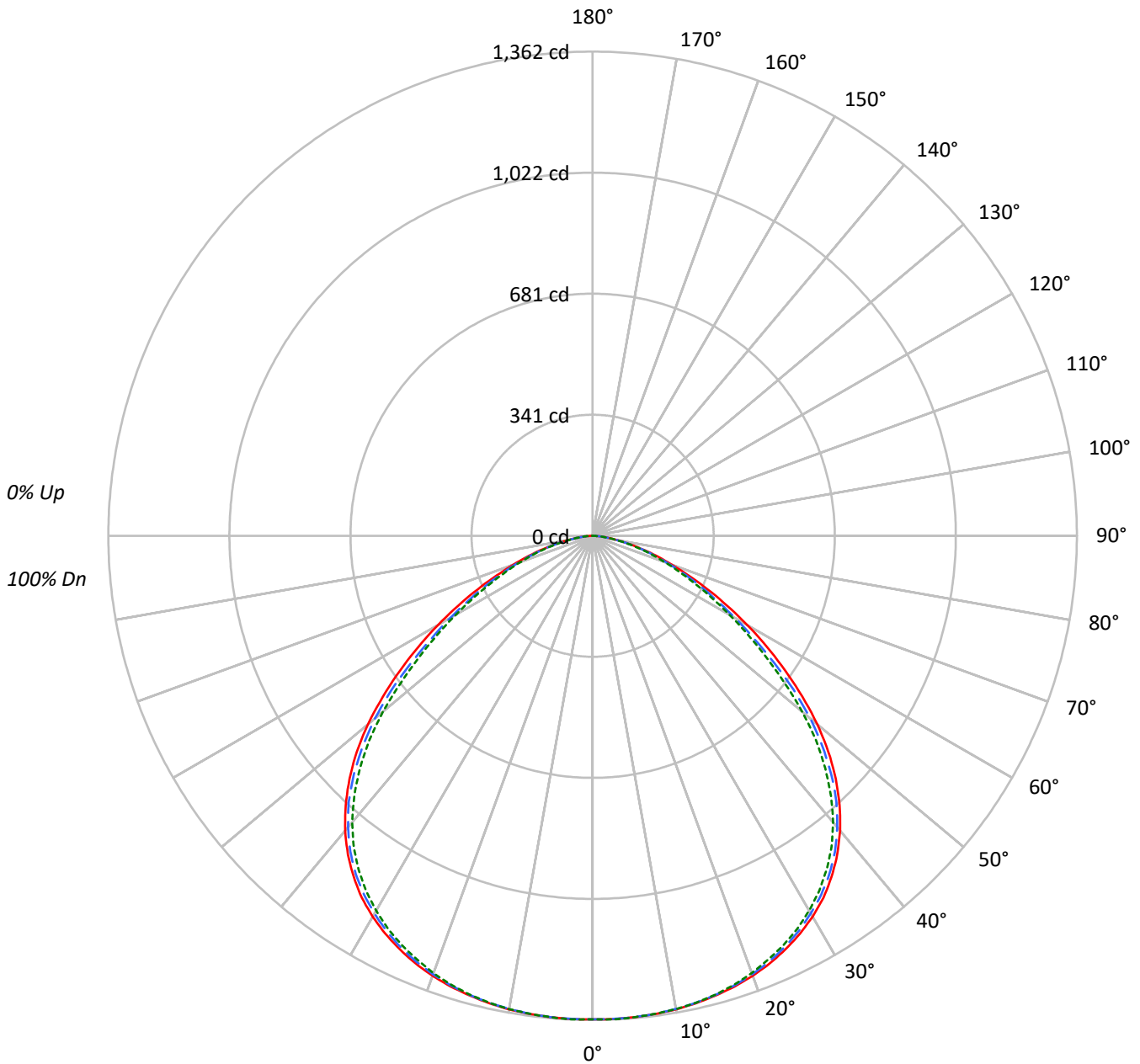
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3619.0 lumens  
Efficiency: N/A  
Efficacy: 143.0 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): 25.3  
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

TEST NUMBER: P412500

CATALOG NUMBER: 24PD-35-PB1-L850

### Luminous Intensity Polar Plot





TEST NUMBER: P412500

CATALOG NUMBER: 24PD-35-PB1-L850

**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°	1830	1830	1830
5°	1836	1836	1836
10°	1848	1846	1847
15°	1865	1862	1861
20°	1886	1880	1875
25°	1906	1896	1885
30°	1922	1906	1892
35°	1924	1908	1884
40°	1902	1880	1848
45°	1840	1807	1760
50°	1726	1672	1611
55°	1551	1459	1399
60°	1350	1243	1195
65°	1136	1051	1005
70°	926	879	844
75°	742	716	686
80°	570	525	511
85°	357	344	344



TEST NUMBER: P412500

CATALOG NUMBER: 24PD-35-PB1-L850

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.5	3.6
10°-20°	378.0	10.4
20°-30°	588.8	16.3
30°-40°	724.3	20.0
40°-50°	727.6	20.1
50°-60°	560.8	15.5
60°-70°	332.9	9.2
70°-80°	148.2	4.1
80°-90°	28.9	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°	1096.3	30.3
0°-40°	1820.6	50.3
0°-60°	3108.9	85.9
0°-90°	3619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3619.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1359	1360	1359	1358	1359	130
15°	1339	1339	1337	1335	1336	379
25°	1284	1283	1277	1271	1270	592
35°	1172	1170	1161	1152	1147	732
45°	967	965	950	934	925	742
55°	661	648	622	603	596	591
65°	357	341	330	318	316	357
75°	143	140	138	133	132	155
85°	23	22	22	21	22	31
90°	0	0	0	0	0	



TEST NUMBER: P412500

CATALOG NUMBER: 24PD-35-PB1-L850

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1360.1	1360.1	1360.1	1360.1	<i>1360.1</i>
2.5°	<i>1360.8</i>	<i>1360.4</i>	<i>1360.4</i>	<i>1359.0</i>	<i>1361.9</i>
5°	1359.3	1359.7	1359.3	1357.9	<i>1359.3</i>
7.5°	1356.5	1356.8	1356.1	1354.7	<i>1356.1</i>
10°	1352.9	1352.9	1351.4	1350.7	<i>1351.8</i>
12.5°	1346.7	1346.7	1345.3	1344.2	<i>1345.3</i>
15°	1338.8	1338.8	1337.0	1334.8	<i>1335.9</i>
17.5°	1329.1	1329.1	1326.2	1323.3	<i>1324.0</i>
20°	1317.2	1316.8	1312.8	1308.9	<i>1309.2</i>
22.5°	1302.0	1301.7	1296.6	1291.9	<i>1290.5</i>
25°	1283.6	1283.3	1277.2	1271.4	<i>1269.9</i>
27.5°	1262.4	1260.9	1254.1	1247.6	<i>1246.2</i>
30°	1237.1	1236.1	1227.1	1220.6	<i>1217.7</i>
32.5°	1207.9	1205.1	1196.8	1188.8	<i>1184.9</i>
35°	1171.5	1169.7	1161.4	1151.7	<i>1147.0</i>
37.5°	1130.4	1128.6	1119.6	1108.8	<i>1103.4</i>
40°	1082.9	1081.4	1070.2	1059.1	<i>1052.2</i>
42.5°	1028.1	1027.0	1015.1	999.6	<i>992.4</i>
45°	967.2	964.6	949.5	933.6	<i>925.0</i>
47.5°	899.4	895.1	876.7	861.5	<i>852.2</i>
50°	824.4	818.6	798.8	779.3	<i>769.6</i>
52.5°	743.3	733.2	712.7	690.3	<i>680.9</i>
55°	661.1	648.5	621.8	603.1	<i>596.2</i>
57.5°	580.7	562.3	537.1	523.8	<i>516.9</i>
60°	501.8	481.6	461.8	448.8	<i>444.1</i>
62.5°	426.4	409.5	392.6	379.6	<i>376.7</i>
65°	356.9	341.4	330.2	317.6	<i>315.8</i>
67.5°	292.0	284.8	274.7	263.9	<i>262.4</i>
70°	235.4	232.5	223.5	217.0	<i>214.5</i>
72.5°	187.8	184.9	178.4	173.7	<i>173.0</i>
75°	142.7	139.9	137.7	133.0	<i>131.9</i>
77.5°	101.7	102.0	100.2	97.7	<i>98.4</i>
80°	73.5	69.2	67.8	66.3	<i>66.0</i>
82.5°	45.1	42.5	41.5	41.1	<i>41.8</i>
85°	23.1	22.0	22.3	21.3	<i>22.3</i>
87.5°	7.9	7.9	8.3	7.9	<i>8.7</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)