

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: P412839

Luminaire Tested: **24PD-35-PP3-L830**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-35-PP3-L830  
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

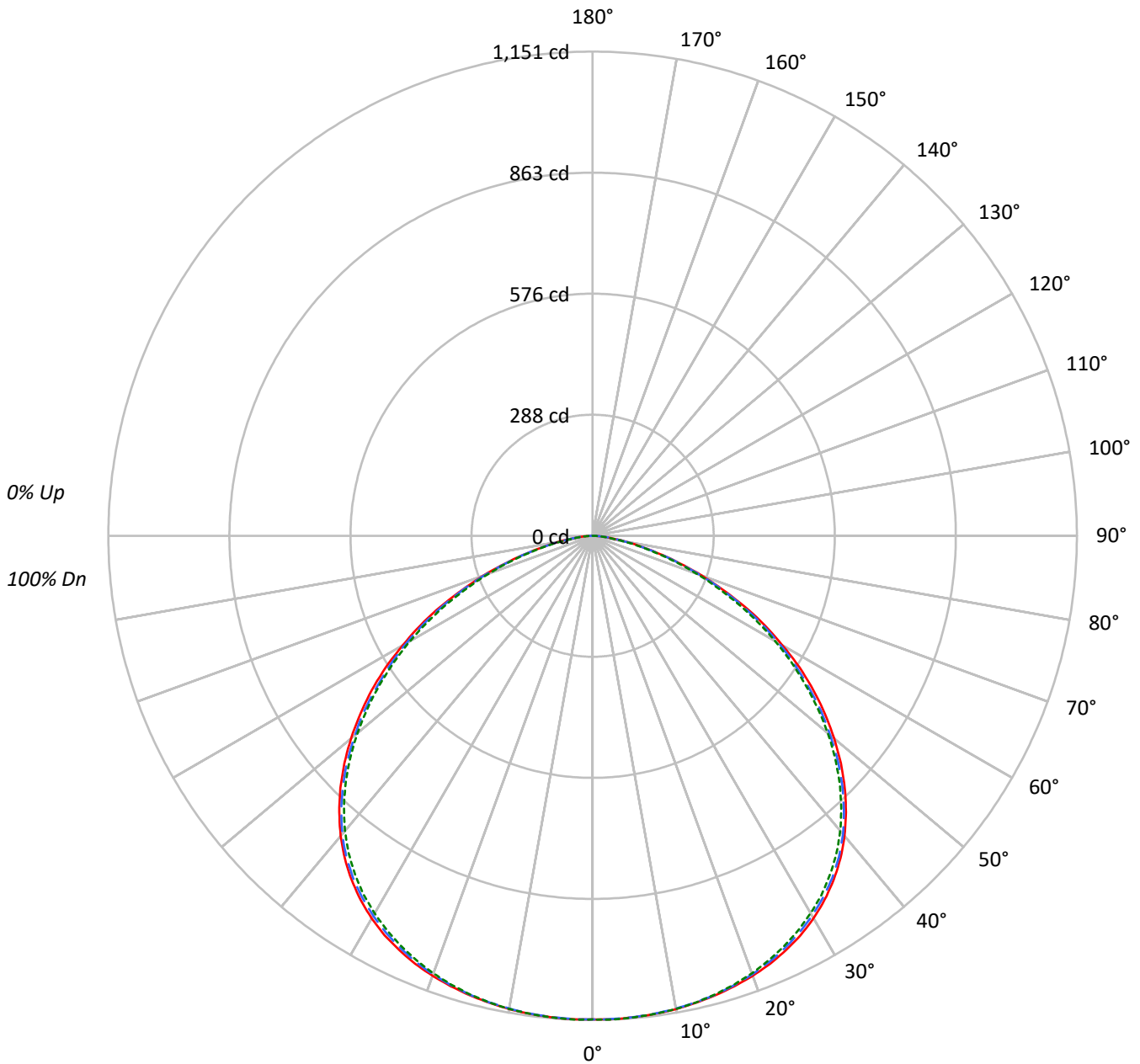
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3346.0 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
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

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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60																			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52																			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31																			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1547	1547	1547
5°	1551	1551	1552
10°	1561	1559	1561
15°	1575	1573	1572
20°	1594	1589	1585
25°	1614	1605	1598
30°	1632	1620	1610
35°	1641	1631	1616
40°	1636	1626	1608
45°	1613	1597	1579
50°	1568	1543	1527
55°	1504	1468	1449
60°	1401	1377	1349
65°	1270	1245	1208
70°	1084	1064	1030
75°	846	838	798
80°	625	598	565
85°	377	377	350



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.4	3.3
10°-20°	319.2	9.5
20°-30°	499.0	14.9
30°-40°	620.2	18.5
40°-50°	646.1	19.3
50°-60°	560.7	16.8
60°-70°	385.5	11.5
70°-80°	174.0	5.2
80°-90°	31.9	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°	927.6	27.7
0°-40°	1547.8	46.3
0°-60°	2754.6	82.3
0°-90°	3346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3346.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1149	1149	1148	1147	1149	109
15°	1130	1130	1129	1128	1128	320
25°	1087	1087	1081	1077	1076	501
35°	999	999	993	987	984	624
45°	848	848	839	833	830	652
55°	641	637	626	618	618	571
65°	399	397	391	382	380	394
75°	163	164	161	157	154	177
85°	24	24	24	24	23	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1149.9	1149.9	1149.9	1149.9	<i>1149.9</i>
2.5°	<i>1150.3</i>	<i>1150.3</i>	<i>1149.6</i>	<i>1148.6</i>	<i>1150.9</i>
5°	1148.6	1148.9	1148.3	1147.2	<i>1148.9</i>
7.5°	1146.2	1146.6	1145.6	1144.6	<i>1145.9</i>
10°	1142.6	1142.2	1141.2	1140.6	<i>1142.2</i>
12.5°	1137.2	1136.9	1135.9	1135.2	<i>1136.5</i>
15°	1130.5	1130.5	1128.9	1127.9	<i>1128.2</i>
17.5°	1122.5	1122.5	1120.2	1117.8	<i>1118.5</i>
20°	1113.1	1112.8	1109.5	1107.1	<i>1106.8</i>
22.5°	1101.4	1101.4	1096.8	1093.7	<i>1092.7</i>
25°	1087.1	1086.7	1081.4	1077.0	<i>1076.4</i>
27.5°	1070.7	1070.0	1063.7	1059.3	<i>1057.6</i>
30°	1050.3	1049.6	1042.9	1038.2	<i>1036.2</i>
32.5°	1026.2	1027.2	1019.5	1014.2	<i>1012.2</i>
35°	998.8	998.8	992.8	987.1	<i>983.7</i>
37.5°	967.4	967.4	961.7	956.0	<i>952.0</i>
40°	931.6	931.9	925.9	918.9	<i>915.5</i>
42.5°	891.4	892.1	884.1	878.4	<i>874.7</i>
45°	847.6	848.0	839.3	832.9	<i>829.9</i>
47.5°	800.2	799.5	789.8	784.4	<i>781.4</i>
50°	749.3	748.0	737.3	732.3	<i>729.6</i>
52.5°	696.2	693.5	684.1	676.8	<i>674.4</i>
55°	641.0	637.3	625.6	618.3	<i>617.6</i>
57.5°	583.5	579.1	569.4	562.4	<i>559.7</i>
60°	520.6	519.6	511.6	503.2	<i>501.2</i>
62.5°	461.8	458.8	451.7	441.7	<i>440.7</i>
65°	398.9	397.2	390.9	381.5	<i>379.5</i>
67.5°	334.0	335.7	330.4	322.0	<i>319.3</i>
70°	275.5	276.5	270.5	262.8	<i>261.8</i>
72.5°	216.7	218.3	213.3	208.3	<i>207.3</i>
75°	162.8	163.5	161.2	156.8	<i>153.5</i>
77.5°	115.7	118.0	115.4	112.4	<i>109.7</i>
80°	80.6	76.9	77.2	75.9	<i>72.9</i>
82.5°	48.5	46.8	46.5	45.1	<i>43.8</i>
85°	24.4	24.1	24.4	24.1	<i>22.7</i>
87.5°	8.0	8.7	9.0	9.0	<i>8.4</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)