

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: P413190

Luminaire Tested: **24PD-40-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413190
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-40-PC3-L830
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

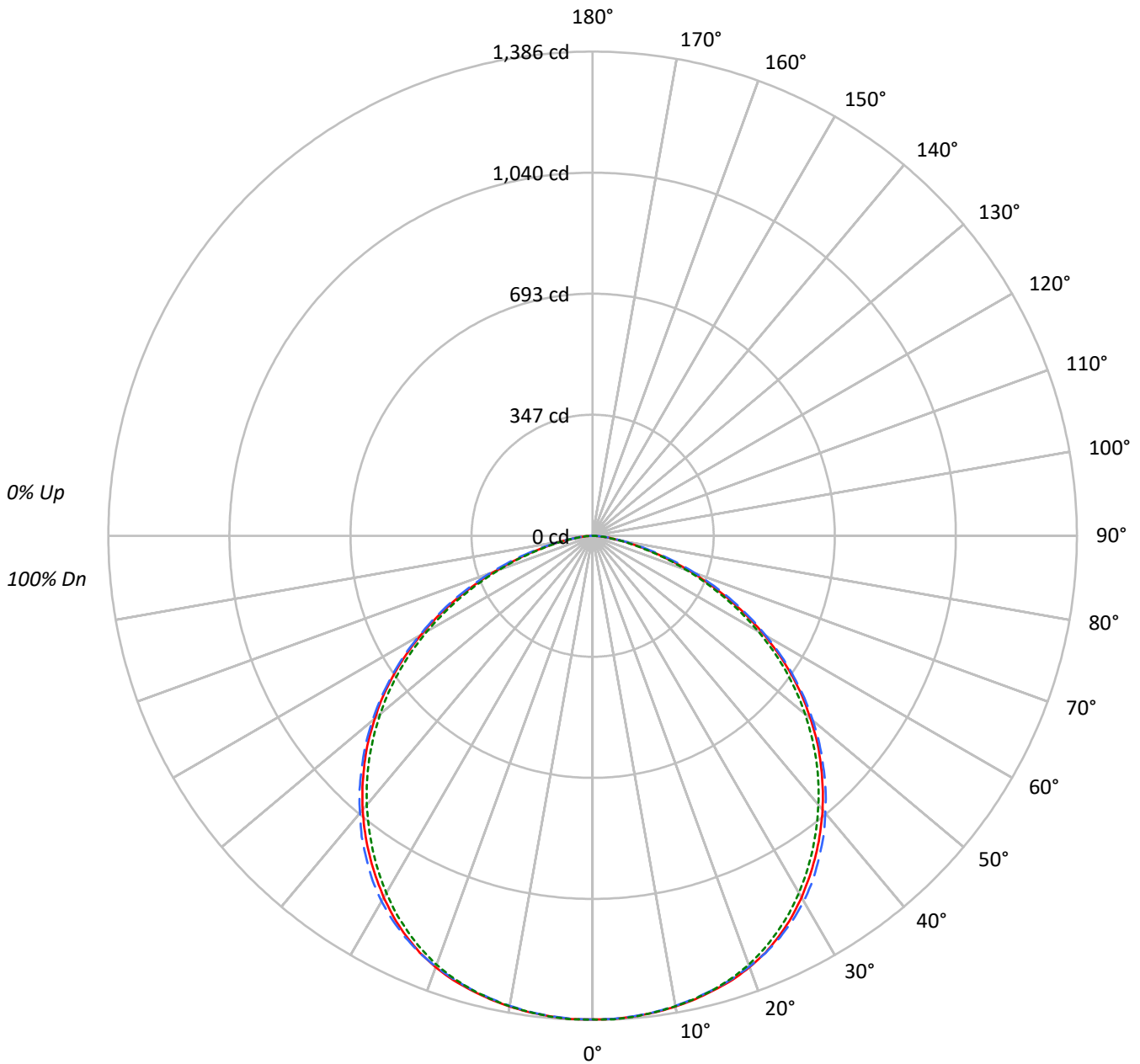
Lumens per Lamp: N/A
Luminaire Lumens: 3785.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.4
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°	1863	1863	1863
5°	1866	1865	1866
10°	1869	1867	1868
15°	1875	1872	1872
20°	1882	1879	1871
25°	1876	1883	1857
30°	1858	1877	1834
35°	1830	1854	1803
40°	1798	1820	1766
45°	1758	1776	1721
50°	1703	1722	1661
55°	1633	1647	1585
60°	1525	1542	1472
65°	1374	1408	1320
70°	1166	1218	1120
75°	904	969	861
80°	672	701	609
85°	415	445	384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	3.5
10°-20°	379.8	10.0
20°-30°	581.6	15.4
30°-40°	699.6	18.5
40°-50°	713.4	18.8
50°-60°	618.5	16.3
60°-70°	428.8	11.3
70°-80°	195.8	5.2
80°-90°	36.2	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°	1092.7	28.9
0°-40°	1792.3	47.4
0°-60°	3124.2	82.5
0°-90°	3785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1381	1381	1380	1380	1382	131
15°	1346	1346	1344	1343	1344	380
25°	1264	1267	1268	1257	1251	582
35°	1114	1126	1128	1114	1097	697
45°	924	935	934	921	904	712
55°	696	700	702	685	676	620
65°	432	441	442	427	415	427
75°	174	183	186	180	166	190
85°	27	28	29	27	25	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.7	1384.7	1384.7	1384.7	<i>1384.7</i>
2.5°	<i>1384.7</i>	<i>1384.7</i>	<i>1384.0</i>	<i>1383.2</i>	<i>1385.5</i>
5°	1381.3	1381.3	1380.5	1379.8	<i>1381.7</i>
7.5°	1375.9	1375.5	1374.8	1374.0	<i>1375.2</i>
10°	1368.3	1367.9	1366.3	1366.0	<i>1367.5</i>
12.5°	1358.7	1358.3	1356.0	1356.0	<i>1357.1</i>
15°	1346.4	1346.0	1343.7	1342.6	<i>1344.1</i>
17.5°	1332.6	1332.2	1329.5	1326.4	<i>1327.2</i>
20°	1314.2	1314.2	1312.2	1307.6	<i>1306.5</i>
22.5°	1291.9	1293.1	1293.1	1284.2	<i>1280.8</i>
25°	1263.9	1267.4	1268.5	1257.4	<i>1250.9</i>
27.5°	1232.1	1237.4	1240.5	1226.3	<i>1217.9</i>
30°	1195.6	1204.5	1208.3	1193.0	<i>1180.7</i>
32.5°	1155.7	1166.9	1171.5	1156.5	<i>1140.8</i>
35°	1114.3	1126.2	1128.5	1113.9	<i>1097.4</i>
37.5°	1070.2	1082.5	1085.5	1072.5	<i>1052.2</i>
40°	1023.8	1036.1	1036.1	1025.3	<i>1005.4</i>
42.5°	974.7	987.7	987.4	974.3	<i>956.3</i>
45°	923.7	935.2	933.6	921.0	<i>904.5</i>
47.5°	871.1	878.4	880.3	865.4	<i>849.6</i>
50°	813.6	820.9	822.8	805.9	<i>793.6</i>
52.5°	756.8	761.4	764.1	744.5	<i>735.7</i>
55°	696.2	700.4	702.3	685.1	<i>675.5</i>
57.5°	632.2	637.5	639.8	622.6	<i>611.8</i>
60°	566.6	572.3	573.1	557.0	<i>547.0</i>
62.5°	499.8	507.5	509.0	492.9	<i>481.0</i>
65°	431.5	440.7	442.3	427.3	<i>414.7</i>
67.5°	363.3	375.5	375.9	363.6	<i>348.7</i>
70°	296.5	309.9	309.6	299.2	<i>284.6</i>
72.5°	232.8	245.1	247.8	238.2	<i>224.0</i>
75°	173.8	183.4	186.4	180.3	<i>165.7</i>
77.5°	123.5	132.3	135.0	129.3	<i>118.5</i>
80°	86.7	87.1	90.5	85.9	<i>78.6</i>
82.5°	53.7	52.9	54.1	52.2	<i>47.9</i>
85°	26.9	27.6	28.8	27.2	<i>24.9</i>
87.5°	9.2	9.6	10.4	10.4	<i>9.2</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)