

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: P413084

Luminaire Tested: **22PD-45-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-45-PC3-L840
Description: 4500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

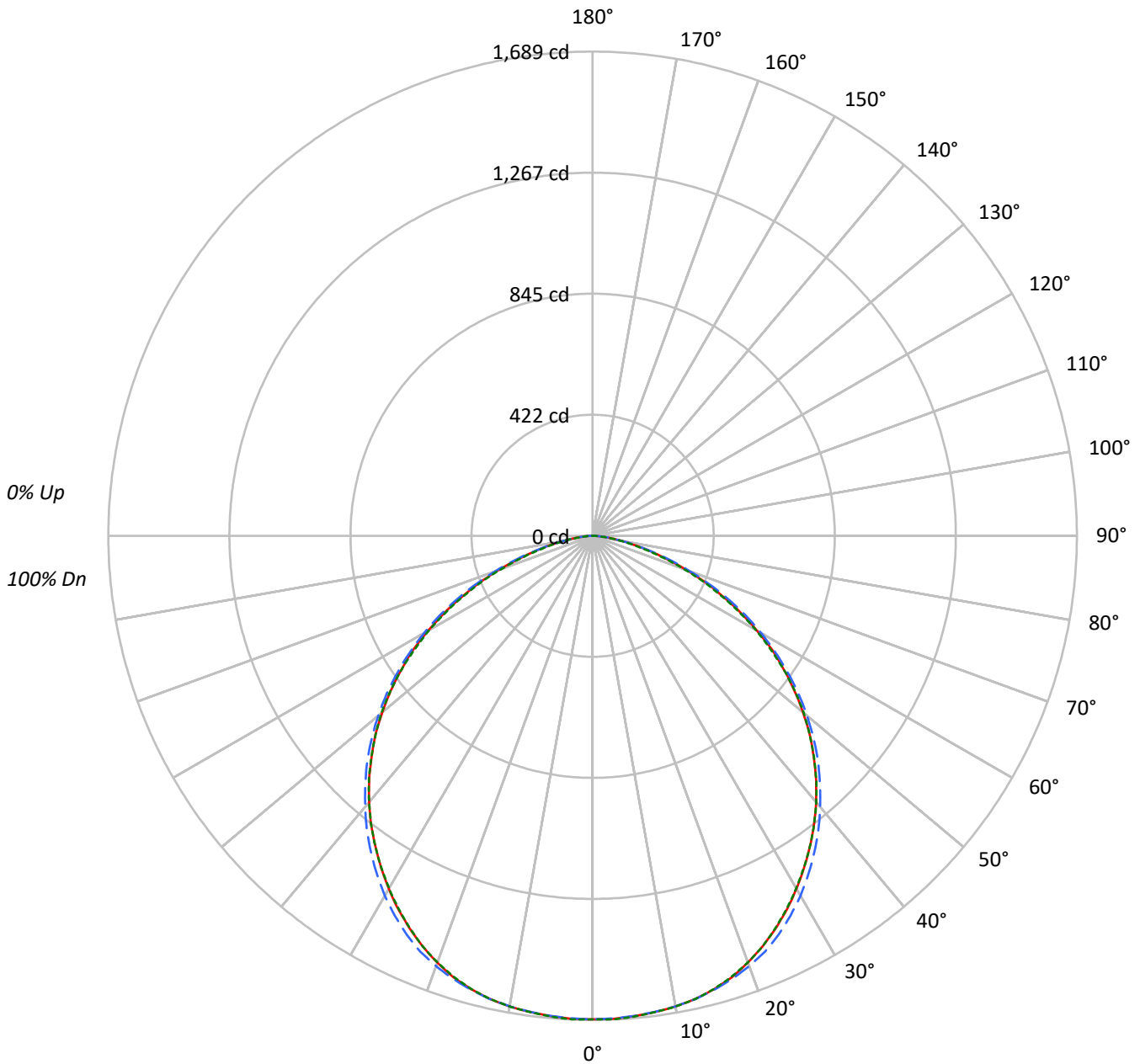
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4531.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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	110	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	76	80	77	74	72			
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52			
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4539	4539	4539
5°	4544	4541	4547
10°	4556	4555	4556
15°	4561	4567	4560
20°	4538	4575	4535
25°	4486	4559	4482
30°	4419	4506	4412
35°	4342	4429	4342
40°	4261	4336	4261
45°	4149	4230	4155
50°	4006	4085	4022
55°	3820	3896	3820
60°	3563	3652	3540
65°	3197	3310	3156
70°	2735	2832	2655
75°	2170	2231	2059
80°	1554	1613	1480
85°	1028	1059	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	3.5
10°-20°	462.2	10.2
20°-30°	701.3	15.5
30°-40°	837.5	18.5
40°-50°	851.7	18.8
50°-60°	736.7	16.3
60°-70°	506.9	11.2
70°-80°	230.1	5.1
80°-90°	44.5	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°	1323.5	29.2
0°-40°	2161.0	47.7
0°-60°	3749.4	82.8
0°-90°	4531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1682	1681	1681	1681	1683	160
15°	1637	1638	1639	1637	1637	462
25°	1511	1524	1535	1521	1510	696
35°	1322	1345	1348	1343	1322	827
45°	1090	1110	1112	1110	1092	841
55°	814	828	830	829	814	728
65°	502	516	520	516	496	498
75°	209	217	215	212	198	224
85°	33	35	34	33	31	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.6	1686.6	1686.6	1686.6	<i>1686.6</i>
2.5°	<i>1686.6</i>	<i>1684.5</i>	<i>1685.0</i>	<i>1685.5</i>	<i>1688.8</i>
5°	1682.3	1680.7	1681.2	1681.2	<i>1683.4</i>
7.5°	1675.3	1674.8	1674.8	1674.3	<i>1675.9</i>
10°	1667.3	1666.2	1666.8	1666.2	<i>1667.3</i>
12.5°	1655.0	1655.0	1655.5	1653.9	<i>1655.0</i>
15°	1637.3	1638.3	1639.4	1636.7	<i>1636.7</i>
17.5°	1614.7	1617.4	1620.1	1615.3	<i>1612.6</i>
20°	1584.7	1591.1	1597.6	1590.1	<i>1583.6</i>
22.5°	1549.8	1560.5	1570.2	1558.4	<i>1549.8</i>
25°	1510.7	1524.1	1535.3	1521.4	<i>1509.6</i>
27.5°	1468.3	1483.3	1494.0	1482.2	<i>1466.1</i>
30°	1422.1	1440.4	1450.0	1438.8	<i>1420.0</i>
32.5°	1372.8	1394.2	1400.1	1393.2	<i>1371.7</i>
35°	1321.8	1345.4	1348.1	1343.3	<i>1321.8</i>
37.5°	1268.7	1291.2	1293.4	1290.7	<i>1268.7</i>
40°	1212.9	1233.8	1234.4	1234.4	<i>1212.9</i>
42.5°	1153.4	1173.8	1173.8	1173.2	<i>1155.0</i>
45°	1090.1	1109.9	1111.5	1110.5	<i>1091.7</i>
47.5°	1027.3	1042.3	1045.0	1042.9	<i>1026.2</i>
50°	957.0	972.6	975.8	973.7	<i>960.8</i>
52.5°	887.3	901.8	905.0	903.4	<i>888.9</i>
55°	814.3	828.3	830.4	828.8	<i>814.3</i>
57.5°	744.1	753.2	755.3	752.1	<i>733.9</i>
60°	662.0	674.9	678.6	674.9	<i>657.7</i>
62.5°	582.6	596.5	599.8	594.4	<i>576.2</i>
65°	502.1	516.1	519.8	515.5	<i>495.7</i>
67.5°	425.9	436.1	439.4	434.5	<i>416.3</i>
70°	347.6	360.5	360.0	353.5	<i>337.4</i>
72.5°	270.4	288.1	284.9	281.1	<i>263.4</i>
75°	208.7	216.7	214.6	212.4	<i>198.0</i>
77.5°	149.1	158.8	153.4	154.0	<i>141.6</i>
80°	100.3	109.4	104.1	101.9	<i>95.5</i>
82.5°	63.8	67.6	66.5	65.4	<i>59.5</i>
85°	33.3	35.4	34.3	33.3	<i>31.1</i>
87.5°	12.9	13.9	12.9	12.9	<i>11.8</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)