

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: P412751

Luminaire Tested: **22PD-50-PP3-L840**

Issue Date: 9/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P412751  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-50-PP3-L840  
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

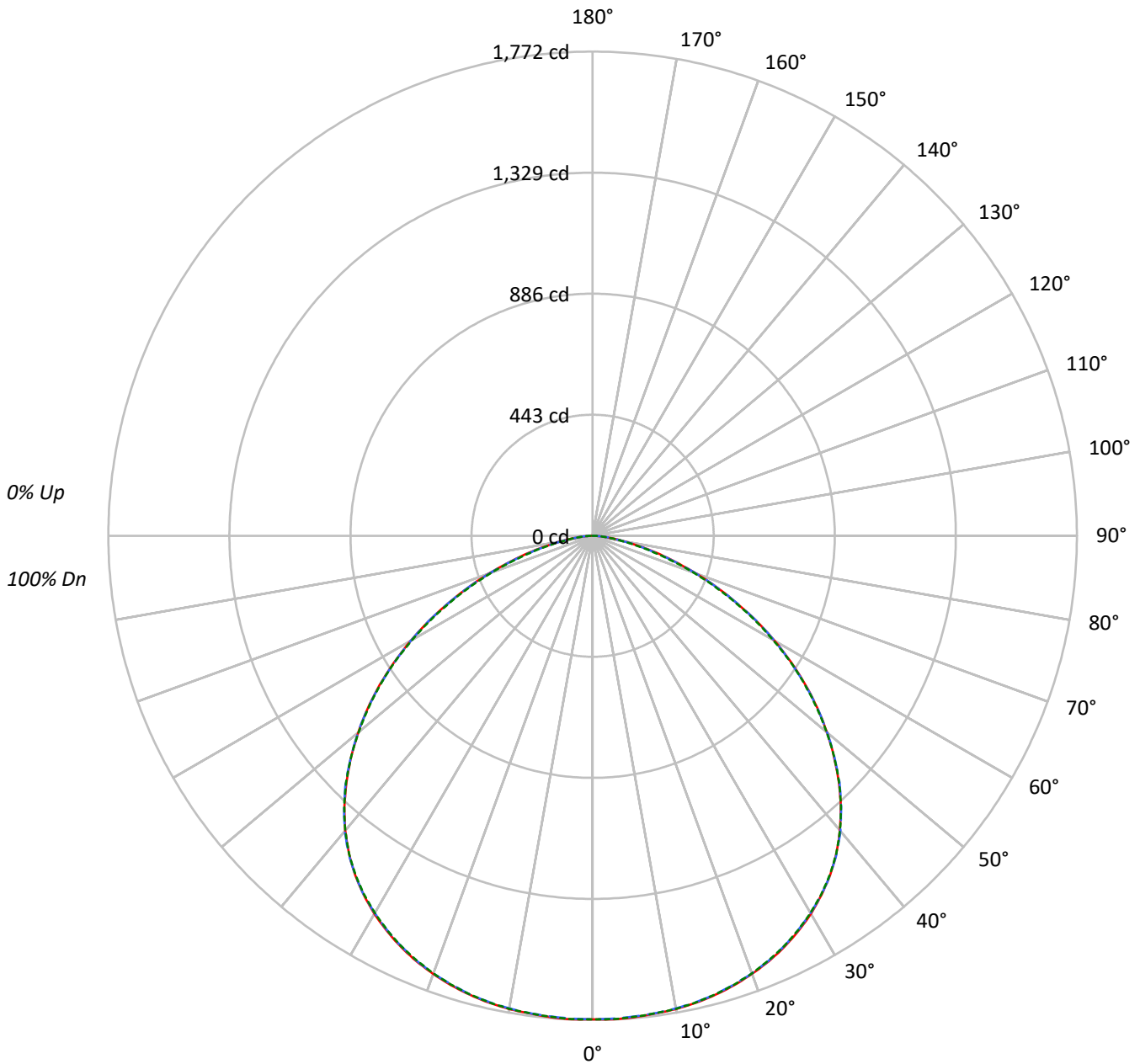
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5077.0 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.9  
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			
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	87	81	77	83	79	75	80	77	74	72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61			
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45			
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28			
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°	4762	4762	4762
5°	4777	4770	4774
10°	4806	4800	4803
15°	4844	4839	4839
20°	4886	4881	4880
25°	4930	4921	4921
30°	4964	4955	4953
35°	4979	4979	4973
40°	4946	4956	4946
45°	4848	4861	4854
50°	4685	4692	4680
55°	4460	4449	4441
60°	4140	4131	4099
65°	3698	3694	3653
70°	3161	3142	3072
75°	2518	2445	2372
80°	1795	1757	1666
85°	1167	1167	1130



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.3	3.3
10°-20°	490.9	9.7
20°-30°	764.3	15.1
30°-40°	946.0	18.6
40°-50°	980.9	19.3
50°-60°	845.5	16.7
60°-70°	574.8	11.3
70°-80°	257.2	5.1
80°-90°	49.0	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°	1423.5	28.0
0°-40°	2369.5	46.7
0°-60°	4196.0	82.6
0°-90°	5077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5077.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1768	1765	1766	1765	1767	168
15°	1739	1736	1737	1736	1737	492
25°	1660	1658	1657	1657	1657	766
35°	1516	1514	1516	1513	1514	947
45°	1274	1273	1277	1274	1276	980
55°	951	947	948	946	946	848
65°	581	586	580	578	574	577
75°	242	243	235	234	228	261
85°	38	39	38	37	37	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1769.6	1769.6	1769.6	1769.6	1769.6
2.5°	1771.9	1768.4	1768.4	1769.0	1770.7
5°	1768.4	1764.8	1766.0	1765.4	1767.2
7.5°	1763.7	1760.7	1762.5	1761.3	1762.5
10°	1758.9	1756.0	1756.6	1756.0	1757.7
12.5°	1750.7	1747.1	1748.3	1748.3	1748.9
15°	1738.8	1735.9	1737.1	1735.9	1737.1
17.5°	1724.7	1721.1	1721.7	1721.1	1722.3
20°	1706.3	1704.0	1704.6	1703.4	1704.0
22.5°	1685.7	1682.7	1683.3	1682.1	1682.1
25°	1660.3	1657.9	1657.3	1656.7	1657.3
27.5°	1630.7	1627.8	1627.8	1627.2	1627.2
30°	1597.6	1594.7	1594.7	1594.1	1594.1
32.5°	1558.6	1557.4	1558.0	1556.9	1556.3
35°	1515.5	1513.7	1515.5	1513.1	1513.7
37.5°	1465.3	1462.9	1466.5	1464.1	1464.7
40°	1408.0	1406.8	1410.9	1409.1	1408.0
42.5°	1344.2	1344.2	1345.9	1346.5	1345.3
45°	1273.8	1272.7	1277.4	1274.4	1275.6
47.5°	1198.2	1196.4	1200.0	1199.4	1198.8
50°	1119.0	1117.9	1120.8	1117.9	1117.9
52.5°	1036.9	1036.3	1036.9	1034.0	1033.4
55°	950.7	947.1	948.3	946.5	946.5
57.5°	860.9	856.7	857.3	856.7	857.3
60°	769.3	768.1	767.5	764.5	761.6
62.5°	675.3	676.5	675.9	671.8	668.8
65°	580.8	585.5	580.2	578.4	573.7
67.5°	491.6	493.4	489.8	485.7	480.4
70°	401.8	405.3	399.4	395.3	390.5
72.5°	316.1	318.5	313.1	310.8	304.9
75°	242.2	242.8	235.2	234.0	228.1
77.5°	172.5	174.9	169.0	169.0	163.1
80°	115.8	119.9	113.4	111.7	107.5
82.5°	72.7	73.3	71.5	69.7	67.9
85°	37.8	39.0	37.8	36.6	36.6
87.5°	14.2	14.8	14.2	13.6	14.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







(END OF REPORT)