

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: METALUX

Report Number: P412765

Luminaire Tested: **22PD-55-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412765
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: METALUX
Catalog Number: 22PD-55-PP3-L940
Description: 5500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

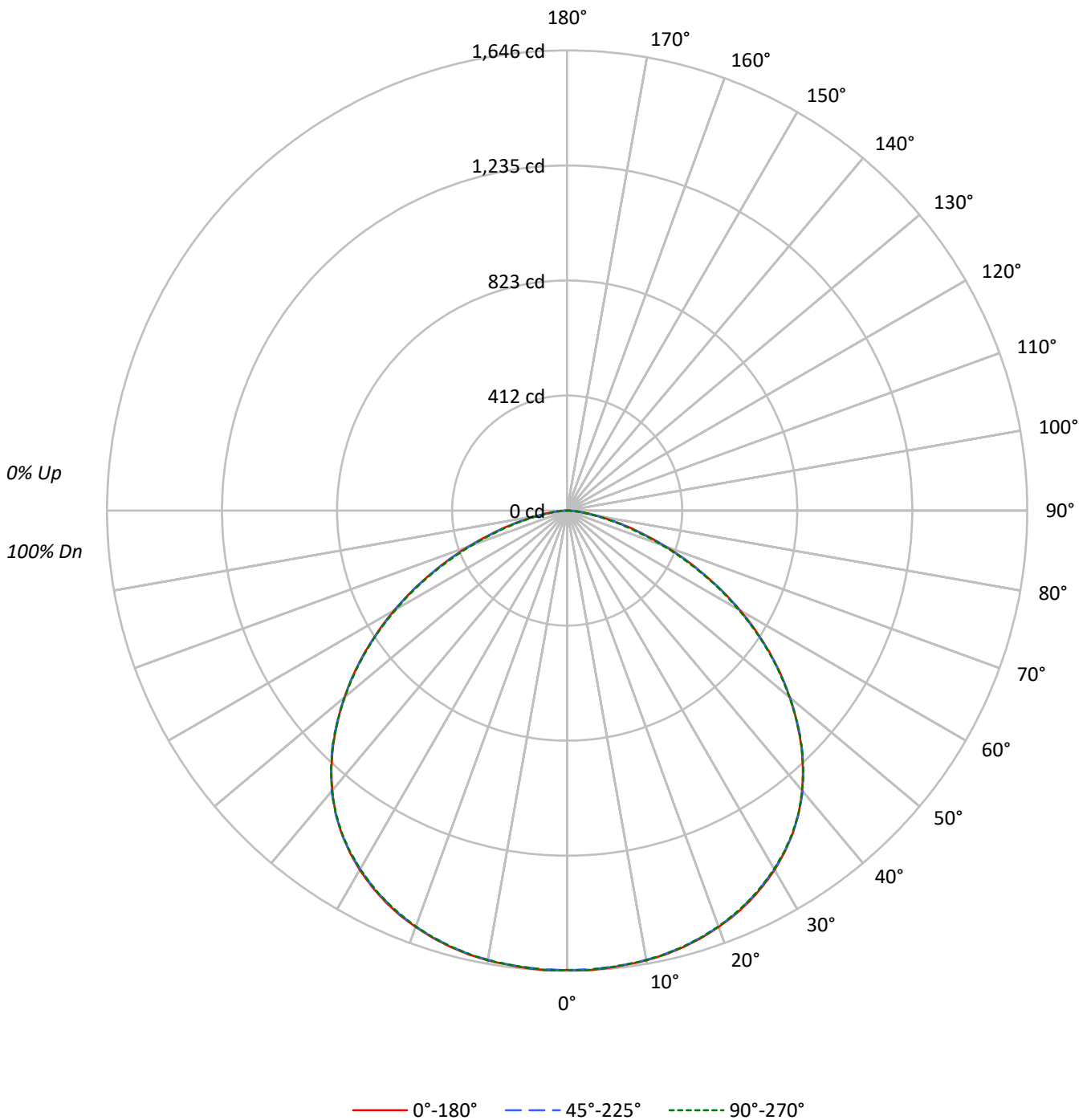
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4716.0 lumens
Efficiency: N/A
Efficacy: 102.1 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): 46.2
Input Voltage (V): NR
Input Current (Ain): 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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45					45			
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4423	4423	4423
5°	4437	4431	4434
10°	4465	4459	4462
15°	4500	4495	4495
20°	4539	4534	4533
25°	4579	4571	4571
30°	4611	4603	4601
35°	4624	4624	4619
40°	4594	4604	4594
45°	4503	4516	4509
50°	4352	4358	4347
55°	4143	4133	4125
60°	3846	3837	3807
65°	3435	3431	3393
70°	2936	2919	2854
75°	2339	2271	2202
80°	1667	1633	1548
85°	1084	1084	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	3.3
10°-20°	456.0	9.7
20°-30°	710.0	15.1
30°-40°	878.7	18.6
40°-50°	911.2	19.3
50°-60°	785.4	16.7
60°-70°	534.0	11.3
70°-80°	238.9	5.1
80°-90°	45.5	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°	1322.3	28.0
0°-40°	2201.0	46.7
0°-60°	3897.6	82.6
0°-90°	4716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1643	1639	1640	1640	1642	156
15°	1615	1612	1614	1612	1614	457
25°	1542	1540	1540	1539	1540	711
35°	1408	1406	1408	1406	1406	879
45°	1183	1182	1187	1184	1185	911
55°	883	880	881	879	879	787
65°	540	544	539	537	533	536
75°	225	226	218	217	212	242
85°	35	36	35	34	34	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.7	1643.7	1643.7	1643.7	1643.7
2.5°	1645.9	1642.6	1642.6	1643.2	1644.8
5°	1642.6	1639.3	1640.4	1639.9	1641.5
7.5°	1638.2	1635.5	1637.2	1636.1	1637.2
10°	1633.9	1631.1	1631.7	1631.1	1632.8
12.5°	1626.2	1622.9	1624.0	1624.0	1624.5
15°	1615.2	1612.5	1613.6	1612.5	1613.6
17.5°	1602.0	1598.7	1599.3	1598.7	1599.8
20°	1585.0	1582.8	1583.4	1582.3	1582.8
22.5°	1565.8	1563.1	1563.6	1562.5	1562.5
25°	1542.2	1540.0	1539.5	1538.9	1539.5
27.5°	1514.8	1512.0	1512.0	1511.5	1511.5
30°	1484.0	1481.3	1481.3	1480.7	1480.7
32.5°	1447.8	1446.7	1447.3	1446.2	1445.6
35°	1407.7	1406.1	1407.7	1405.5	1406.1
37.5°	1361.1	1358.9	1362.2	1360.0	1360.5
40°	1307.9	1306.8	1310.6	1309.0	1307.9
42.5°	1248.6	1248.6	1250.2	1250.8	1249.7
45°	1183.3	1182.2	1186.6	1183.8	1184.9
47.5°	1113.0	1111.4	1114.7	1114.1	1113.6
50°	1039.5	1038.4	1041.1	1038.4	1038.4
52.5°	963.2	962.6	963.2	960.4	959.9
55°	883.1	879.8	880.9	879.2	879.2
57.5°	799.6	795.8	796.3	795.8	796.3
60°	714.6	713.5	712.9	710.2	707.4
62.5°	627.3	628.4	627.9	624.0	621.3
65°	539.5	543.9	538.9	537.3	532.9
67.5°	456.6	458.3	455.0	451.1	446.2
70°	373.2	376.5	371.0	367.2	362.8
72.5°	293.6	295.8	290.9	288.7	283.2
75°	225.0	225.6	218.4	217.3	211.8
77.5°	160.3	162.5	157.0	157.0	151.5
80°	107.6	111.4	105.4	103.7	99.9
82.5°	67.5	68.1	66.4	64.8	63.1
85°	35.1	36.2	35.1	34.0	34.0
87.5°	13.2	13.7	13.2	12.6	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)