

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: P412733

Luminaire Tested: **22PD-40-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412733
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-40-PP3-L840
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

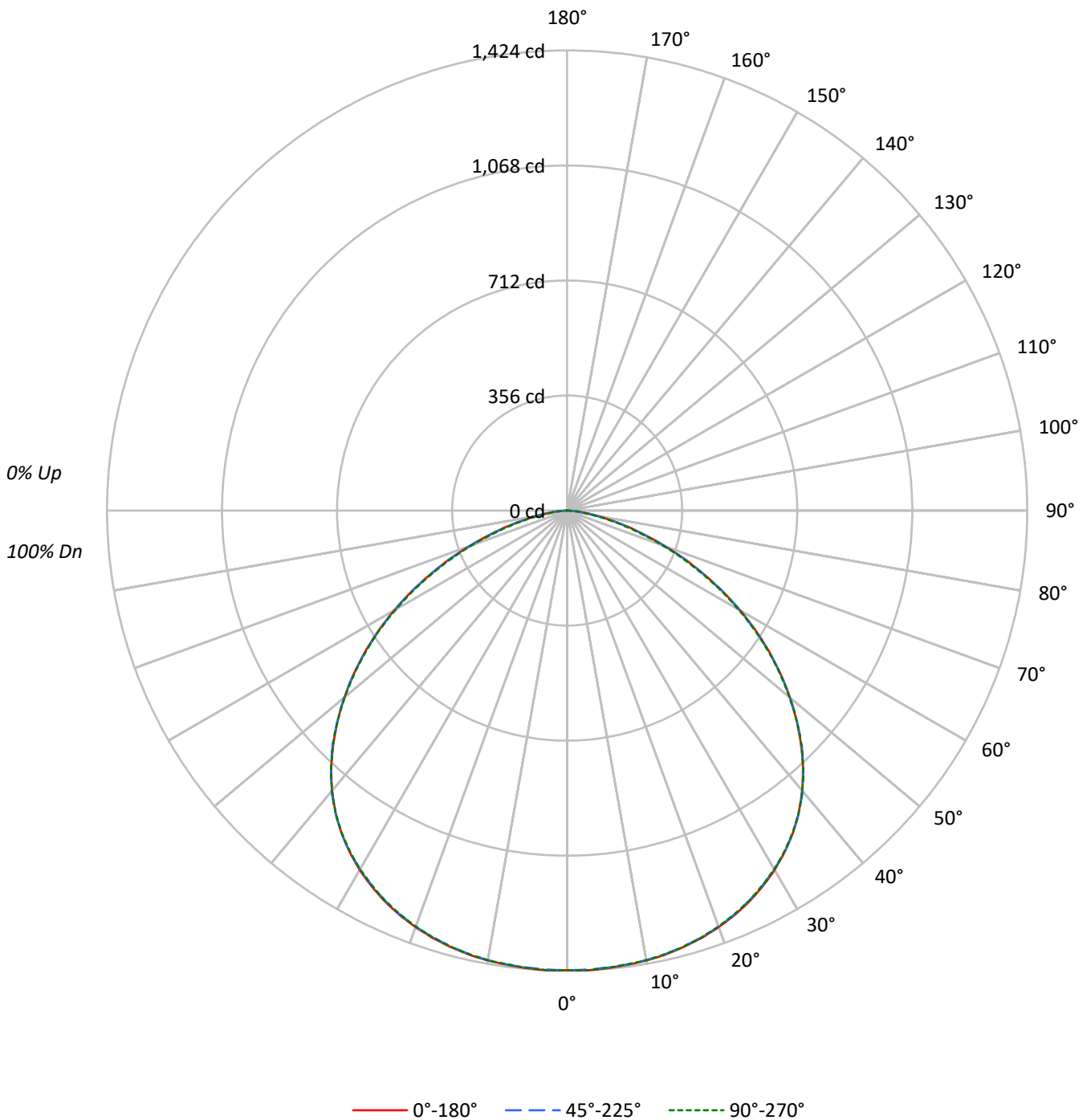
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4081.0 lumens
Efficiency: N/A
Efficacy: 120.7 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): 33.8
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	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°	3828	3828	3828
5°	3840	3835	3837
10°	3863	3858	3861
15°	3894	3890	3890
20°	3928	3924	3922
25°	3962	3956	3956
30°	3990	3983	3982
35°	4002	4002	3997
40°	3976	3984	3976
45°	3897	3908	3902
50°	3766	3772	3762
55°	3585	3576	3569
60°	3328	3320	3295
65°	2973	2970	2937
70°	2541	2526	2470
75°	2024	1965	1906
80°	1443	1413	1339
85°	939	939	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.3
10°-20°	394.6	9.7
20°-30°	614.4	15.1
30°-40°	760.4	18.6
40°-50°	788.5	19.3
50°-60°	679.6	16.7
60°-70°	462.1	11.3
70°-80°	206.8	5.1
80°-90°	39.4	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°	1144.2	28.0
0°-40°	1904.7	46.7
0°-60°	3372.8	82.6
0°-90°	4081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1422	1422	1422	1422	1422	
5°	1422	1419	1420	1419	1420	135
15°	1398	1395	1396	1395	1396	395
25°	1334	1333	1332	1332	1332	615
35°	1218	1217	1218	1216	1217	761
45°	1024	1023	1027	1024	1025	788
55°	764	761	762	761	761	681
65°	467	471	466	465	461	464
75°	195	195	189	188	183	210
85°	30	31	30	29	29	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1422.4	1422.4	1422.4	1422.4	1422.4
2.5°	1424.3	1421.5	1421.5	1421.9	1423.4
5°	1421.5	1418.6	1419.6	1419.1	1420.5
7.5°	1417.7	1415.3	1416.7	1415.8	1416.7
10°	1413.9	1411.5	1412.0	1411.5	1412.9
12.5°	1407.2	1404.4	1405.3	1405.3	1405.8
15°	1397.7	1395.3	1396.3	1395.3	1396.3
17.5°	1386.3	1383.5	1383.9	1383.5	1384.4
20°	1371.6	1369.7	1370.2	1369.2	1369.7
22.5°	1355.0	1352.6	1353.1	1352.1	1352.1
25°	1334.5	1332.6	1332.2	1331.7	1332.2
27.5°	1310.8	1308.4	1308.4	1308.0	1308.0
30°	1284.2	1281.8	1281.8	1281.4	1281.4
32.5°	1252.9	1251.9	1252.4	1251.4	1251.0
35°	1218.2	1216.8	1218.2	1216.3	1216.8
37.5°	1177.8	1175.9	1178.8	1176.9	1177.3
40°	1131.8	1130.8	1134.1	1132.7	1131.8
42.5°	1080.5	1080.5	1081.9	1082.4	1081.4
45°	1023.9	1023.0	1026.8	1024.4	1025.4
47.5°	963.2	961.7	964.6	964.1	963.6
50°	899.5	898.6	900.9	898.6	898.6
52.5°	833.5	833.0	833.5	831.1	830.6
55°	764.2	761.3	762.3	760.8	760.8
57.5°	692.0	688.6	689.1	688.6	689.1
60°	618.4	617.4	616.9	614.6	612.2
62.5°	542.8	543.8	543.3	540.0	537.6
65°	466.9	470.7	466.4	465.0	461.2
67.5°	395.1	396.6	393.7	390.4	386.1
70°	323.0	325.8	321.1	317.7	313.9
72.5°	254.1	256.0	251.7	249.8	245.1
75°	194.7	195.2	189.0	188.1	183.3
77.5°	138.7	140.6	135.8	135.8	131.1
80°	93.1	96.4	91.2	89.8	86.4
82.5°	58.4	58.9	57.5	56.0	54.6
85°	30.4	31.3	30.4	29.4	29.4
87.5°	11.4	11.9	11.4	10.9	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)