

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: P412393

Luminaire Tested: **22PD-40-PB1-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-40-PB1-L927
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

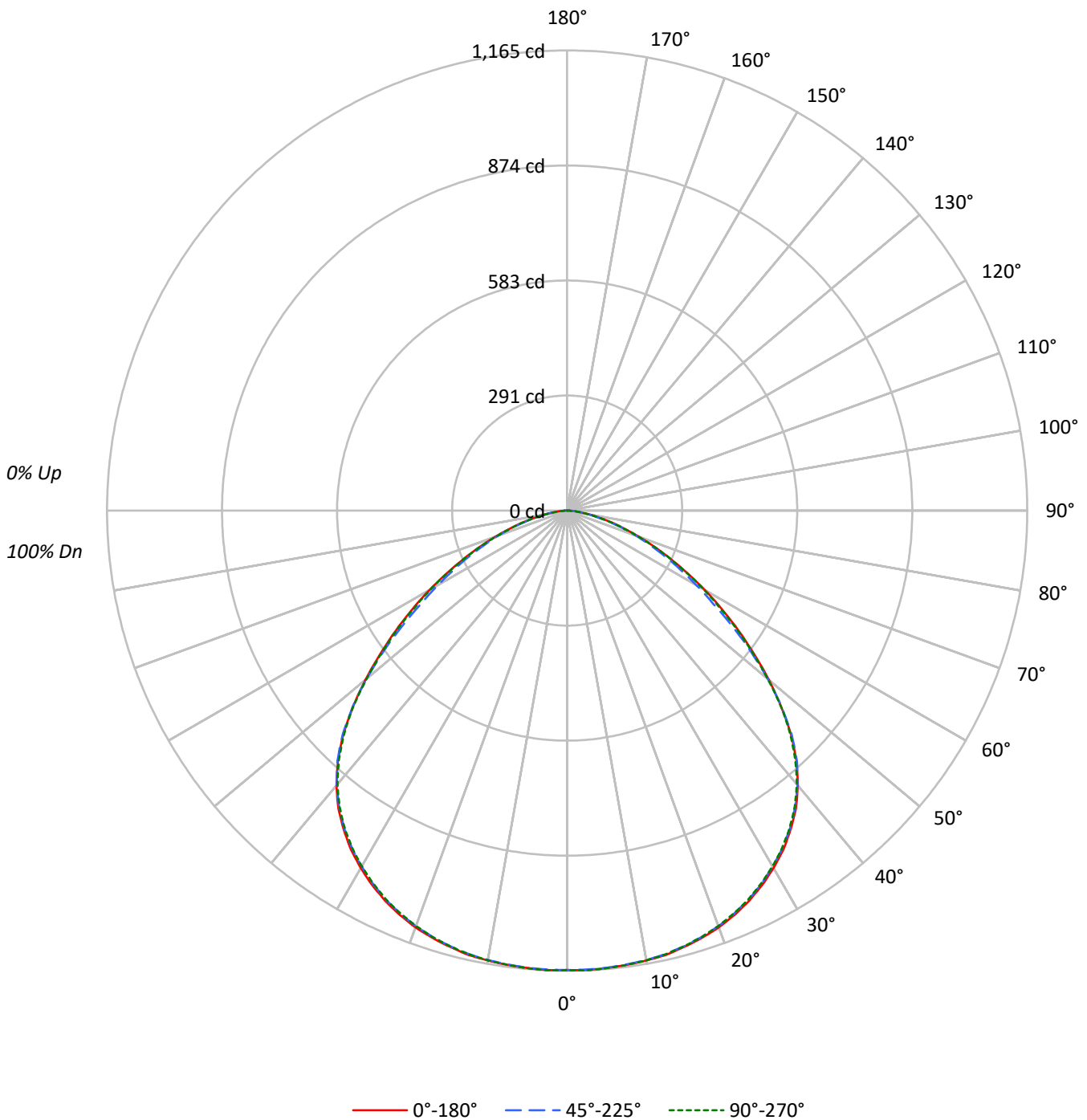
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3054.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
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 (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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82	78	76	73
3	92	83	75	69	90	81	74	68	78	72	67		76	70	66		73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50		61	55	50		59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44		55	49	44		54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39		51	44	39		49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35		46	40	35		45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29		40	33	29		39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3130	3130	3130
5°	3140	3138	3141
10°	3161	3157	3159
15°	3187	3182	3182
20°	3216	3206	3204
25°	3236	3226	3223
30°	3247	3233	3231
35°	3240	3231	3225
40°	3192	3188	3178
45°	3051	3061	3038
50°	2793	2778	2775
55°	2482	2395	2465
60°	2164	2033	2151
65°	1834	1736	1826
70°	1517	1455	1503
75°	1227	1148	1178
80°	886	859	852
85°	577	577	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	3.6
10°-20°	322.8	10.6
20°-30°	500.9	16.4
30°-40°	614.3	20.1
40°-50°	614.0	20.1
50°-60°	465.1	15.2
60°-70°	279.0	9.1
70°-80°	122.8	4.0
80°-90°	24.4	0.8
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°	934.4	30.6
0°-40°	1548.7	50.7
0°-60°	2627.8	86.0
0°-90°	3054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1162	1161	1162	1161	1163	111
15°	1144	1143	1142	1141	1142	323
25°	1090	1088	1087	1085	1086	502
35°	986	986	983	983	982	616
45°	802	803	804	802	798	614
55°	529	518	510	517	526	474
65°	288	278	273	277	287	288
75°	118	116	110	112	113	126
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.3	1163.3	1163.3	1163.3	<i>1163.3</i>
2.5°	<i>1164.3</i>	<i>1162.5</i>	<i>1162.9</i>	<i>1162.9</i>	<i>1165.1</i>
5°	1162.5	1161.1	1161.5	1161.1	<i>1162.9</i>
7.5°	1160.0	1158.6	1158.9	1158.6	<i>1159.7</i>
10°	1156.8	1155.4	1155.4	1154.6	<i>1156.1</i>
12.5°	1152.5	1150.7	1150.0	1149.6	<i>1150.7</i>
15°	1143.8	1142.8	1142.0	1141.3	<i>1142.0</i>
17.5°	1134.5	1132.7	1132.0	1130.5	<i>1132.0</i>
20°	1123.0	1120.5	1119.7	1118.7	<i>1119.0</i>
22.5°	1107.9	1105.7	1104.6	1102.8	<i>1103.6</i>
25°	1089.9	1087.7	1086.6	1084.9	<i>1085.6</i>
27.5°	1069.0	1067.6	1065.1	1063.6	<i>1064.0</i>
30°	1044.9	1043.5	1040.6	1039.9	<i>1039.9</i>
32.5°	1018.3	1016.5	1014.0	1013.3	<i>1012.9</i>
35°	986.3	985.9	983.4	982.7	<i>981.6</i>
37.5°	951.4	950.7	947.8	947.1	<i>946.0</i>
40°	908.6	907.9	907.5	906.1	<i>904.6</i>
42.5°	859.0	860.0	860.8	857.9	<i>855.0</i>
45°	801.8	802.8	804.3	802.1	<i>798.2</i>
47.5°	734.9	739.2	737.0	738.5	<i>734.5</i>
50°	667.2	667.2	663.6	665.1	<i>662.9</i>
52.5°	596.4	590.6	586.3	589.2	<i>592.1</i>
55°	529.1	517.6	510.4	517.2	<i>525.5</i>
57.5°	464.7	451.1	437.8	448.5	<i>458.6</i>
60°	402.1	386.3	377.7	385.6	<i>399.6</i>
62.5°	342.8	331.3	322.6	328.8	<i>340.6</i>
65°	288.1	278.0	272.7	277.3	<i>286.7</i>
67.5°	238.1	231.3	225.9	229.8	<i>237.0</i>
70°	192.8	191.0	184.9	186.7	<i>191.0</i>
72.5°	151.4	151.1	145.7	147.1	<i>149.6</i>
75°	118.0	115.5	110.4	112.2	<i>113.3</i>
77.5°	83.5	84.5	79.9	80.9	<i>80.9</i>
80°	57.2	59.0	55.4	54.7	<i>55.0</i>
82.5°	36.3	36.3	36.0	35.6	<i>34.5</i>
85°	18.7	19.4	18.7	18.0	<i>18.0</i>
87.5°	7.2	7.2	7.2	6.8	<i>6.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)