

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: P413066

Luminaire Tested: **22PD-35-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413066
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: METALUX
Catalog Number: 22PD-35-PC3-L840
Description: 3500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

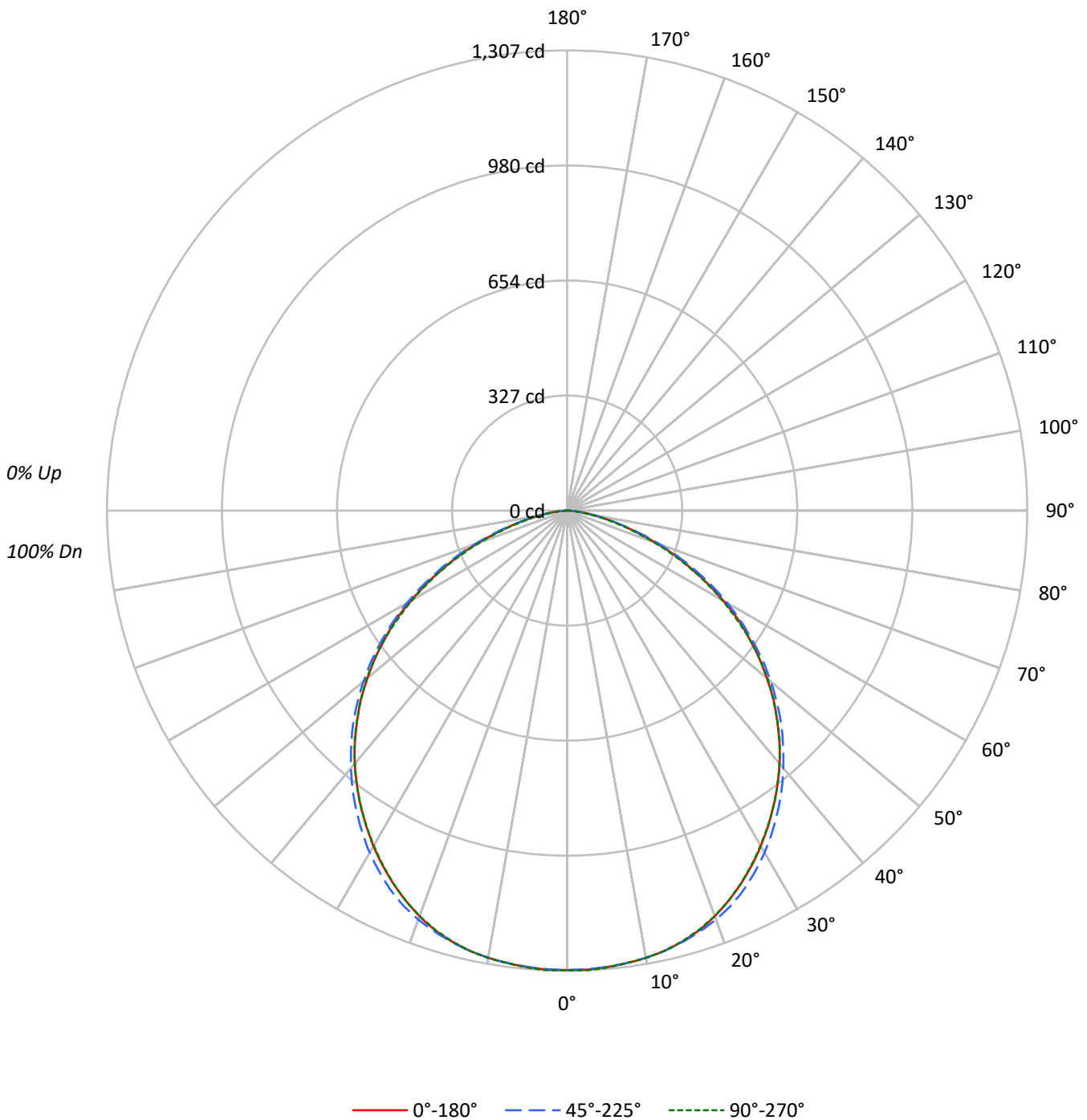
Lumens per Lamp: N/A
Luminaire Lumens: 3506.0 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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	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°	3512	3512	3512
5°	3516	3514	3519
10°	3525	3524	3525
15°	3529	3534	3528
20°	3511	3540	3509
25°	3471	3527	3468
30°	3419	3486	3414
35°	3360	3427	3360
40°	3297	3355	3297
45°	3210	3273	3215
50°	3100	3161	3112
55°	2956	3015	2956
60°	2757	2826	2739
65°	2474	2561	2443
70°	2116	2191	2054
75°	1679	1726	1593
80°	1203	1247	1145
85°	794	821	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.5
10°-20°	357.7	10.2
20°-30°	542.6	15.5
30°-40°	648.0	18.5
40°-50°	659.0	18.8
50°-60°	570.1	16.3
60°-70°	392.3	11.2
70°-80°	178.0	5.1
80°-90°	34.5	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°	1024.1	29.2
0°-40°	1672.1	47.7
0°-60°	2901.2	82.8
0°-90°	3506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1302	1300	1301	1301	1303	124
15°	1267	1268	1268	1266	1266	357
25°	1169	1179	1188	1177	1168	538
35°	1023	1041	1043	1039	1023	640
45°	844	859	860	859	845	650
55°	630	641	643	641	630	563
65°	388	399	402	399	384	385
75°	162	168	166	164	153	174
85°	26	27	27	26	24	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1305.1	1305.1	1305.1	1305.1	1305.1
2.5°	1305.1	1303.4	1303.8	1304.2	1306.7
5°	1301.7	1300.5	1300.9	1300.9	1302.6
7.5°	1296.4	1295.9	1295.9	1295.5	1296.8
10°	1290.1	1289.3	1289.7	1289.3	1290.1
12.5°	1280.6	1280.6	1281.0	1279.7	1280.6
15°	1266.9	1267.7	1268.5	1266.5	1266.5
17.5°	1249.4	1251.5	1253.6	1249.9	1247.8
20°	1226.2	1231.2	1236.2	1230.4	1225.4
22.5°	1199.2	1207.5	1215.0	1205.9	1199.2
25°	1168.9	1179.3	1188.0	1177.2	1168.1
27.5°	1136.1	1147.7	1156.0	1146.9	1134.5
30°	1100.4	1114.5	1122.0	1113.3	1098.8
32.5°	1062.2	1078.8	1083.4	1078.0	1061.4
35°	1022.8	1041.1	1043.1	1039.4	1022.8
37.5°	981.7	999.1	1000.8	998.7	981.7
40°	938.5	954.7	955.1	955.1	938.5
42.5°	892.5	908.2	908.2	907.8	893.7
45°	843.5	858.8	860.1	859.3	844.7
47.5°	794.9	806.5	808.6	807.0	794.1
50°	740.5	752.6	755.1	753.4	743.4
52.5°	686.6	697.8	700.3	699.0	687.8
55°	630.1	640.9	642.6	641.3	630.1
57.5°	575.7	582.8	584.5	582.0	567.9
60°	512.2	522.2	525.1	522.2	508.9
62.5°	450.8	461.6	464.1	459.9	445.8
65°	388.5	399.3	402.2	398.9	383.6
67.5°	329.6	337.5	340.0	336.2	322.1
70°	269.0	278.9	278.5	273.5	261.1
72.5°	209.2	222.9	220.4	217.5	203.8
75°	161.5	167.7	166.0	164.4	153.2
77.5°	115.4	122.9	118.7	119.1	109.6
80°	77.6	84.7	80.5	78.9	73.9
82.5°	49.4	52.3	51.5	50.6	46.1
85°	25.7	27.4	26.6	25.7	24.1
87.5°	10.0	10.8	10.0	10.0	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)