

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: P413185

Luminaire Tested: **24PD-35-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-35-PC3-L927
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

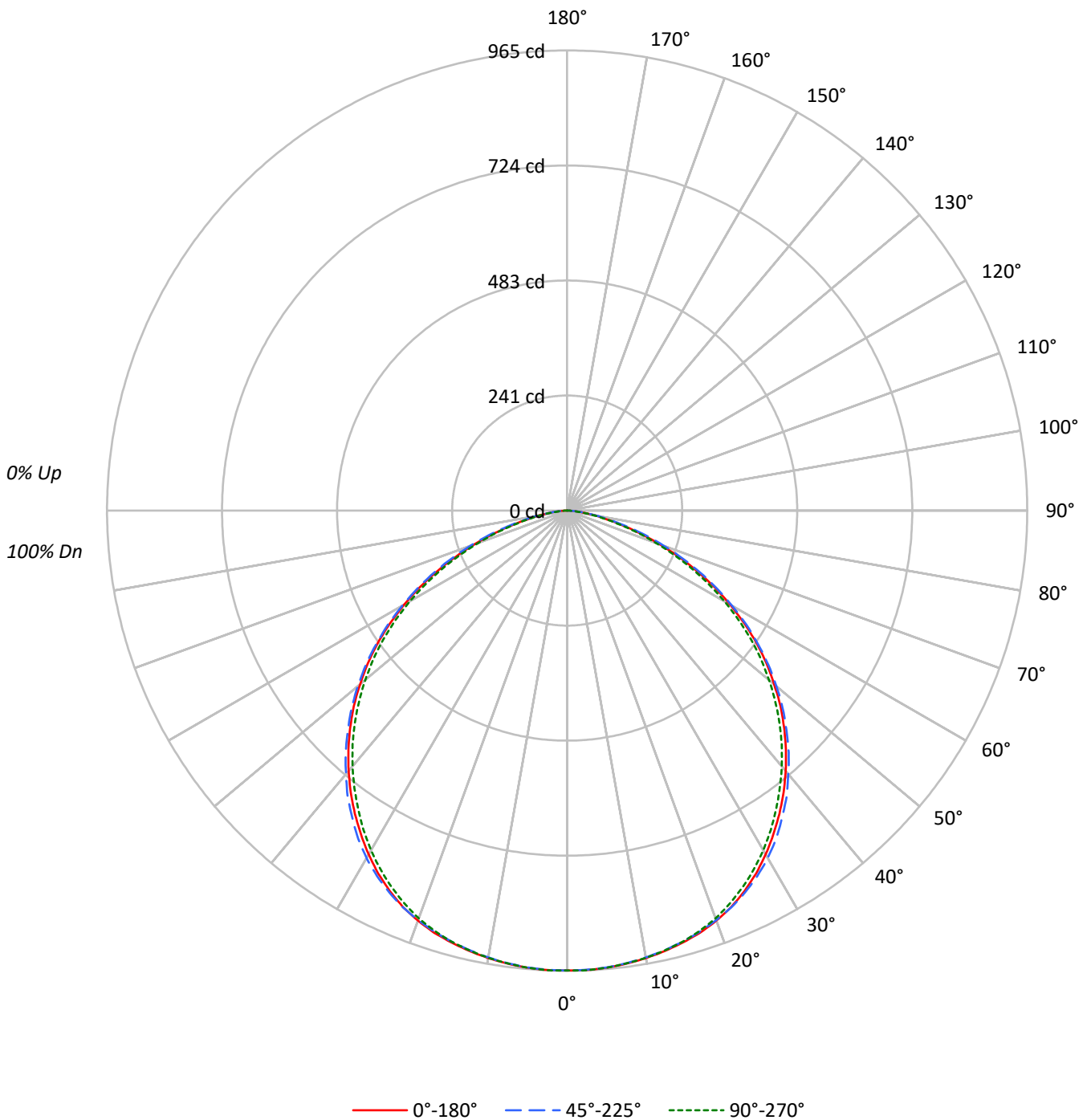
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2636.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1298	1298	1298
5°	1299	1298	1300
10°	1302	1300	1301
15°	1306	1304	1304
20°	1310	1309	1303
25°	1307	1311	1293
30°	1294	1307	1278
35°	1275	1291	1255
40°	1252	1267	1230
45°	1224	1237	1199
50°	1186	1199	1157
55°	1137	1147	1103
60°	1062	1074	1025
65°	957	981	919
70°	812	848	780
75°	629	675	600
80°	468	488	425
85°	289	309	269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	3.5
10°-20°	264.5	10.0
20°-30°	405.0	15.4
30°-40°	487.2	18.5
40°-50°	496.8	18.8
50°-60°	430.7	16.3
60°-70°	298.6	11.3
70°-80°	136.4	5.2
80°-90°	25.2	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°	761.0	28.9
0°-40°	1248.2	47.4
0°-60°	2175.8	82.5
0°-90°	2636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	962	962	961	961	962	92
15°	938	937	936	935	936	265
25°	880	883	883	876	871	405
35°	776	784	786	776	764	485
45°	643	651	650	641	630	496
55°	485	488	489	477	470	432
65°	300	307	308	298	289	297
75°	121	128	130	126	115	132
85°	19	19	20	19	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	964.4	964.4	964.4	964.4	964.4
2.5°	964.4	964.4	963.8	963.3	964.9
5°	962.0	962.0	961.4	960.9	962.2
7.5°	958.2	958.0	957.4	956.9	957.7
10°	952.9	952.6	951.6	951.3	952.4
12.5°	946.2	946.0	944.3	944.3	945.1
15°	937.7	937.4	935.8	935.0	936.1
17.5°	928.1	927.8	925.9	923.8	924.3
20°	915.2	915.2	913.9	910.7	909.9
22.5°	899.7	900.5	900.5	894.4	892.0
25°	880.2	882.6	883.4	875.7	871.2
27.5°	858.1	861.8	863.9	854.1	848.2
30°	832.7	838.8	841.5	830.8	822.3
32.5°	804.9	812.6	815.9	805.4	794.5
35°	776.0	784.3	785.9	775.8	764.3
37.5°	745.3	753.9	756.0	746.9	732.8
40°	713.0	721.6	721.6	714.1	700.2
42.5°	678.8	687.9	687.6	678.5	666.0
45°	643.3	651.3	650.2	641.4	629.9
47.5°	606.7	611.8	613.1	602.7	591.7
50°	566.6	571.7	573.0	561.3	552.7
52.5°	527.1	530.3	532.1	518.5	512.4
55°	484.9	487.8	489.1	477.1	470.4
57.5°	440.3	444.0	445.6	433.6	426.1
60°	394.6	398.6	399.1	387.9	380.9
62.5°	348.1	353.4	354.5	343.3	335.0
65°	300.5	306.9	308.0	297.6	288.8
67.5°	253.0	261.5	261.8	253.3	242.8
70°	206.5	215.9	215.6	208.4	198.2
72.5°	162.2	170.7	172.6	165.9	156.0
75°	121.0	127.7	129.8	125.6	115.4
77.5°	86.0	92.2	94.0	90.0	82.5
80°	60.4	60.6	63.0	59.8	54.8
82.5°	37.4	36.9	37.7	36.3	33.4
85°	18.7	19.2	20.0	19.0	17.4
87.5°	6.4	6.7	7.2	7.2	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)