

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: P413187

Luminaire Tested: **24PD-35-PC3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413187
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-L935
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

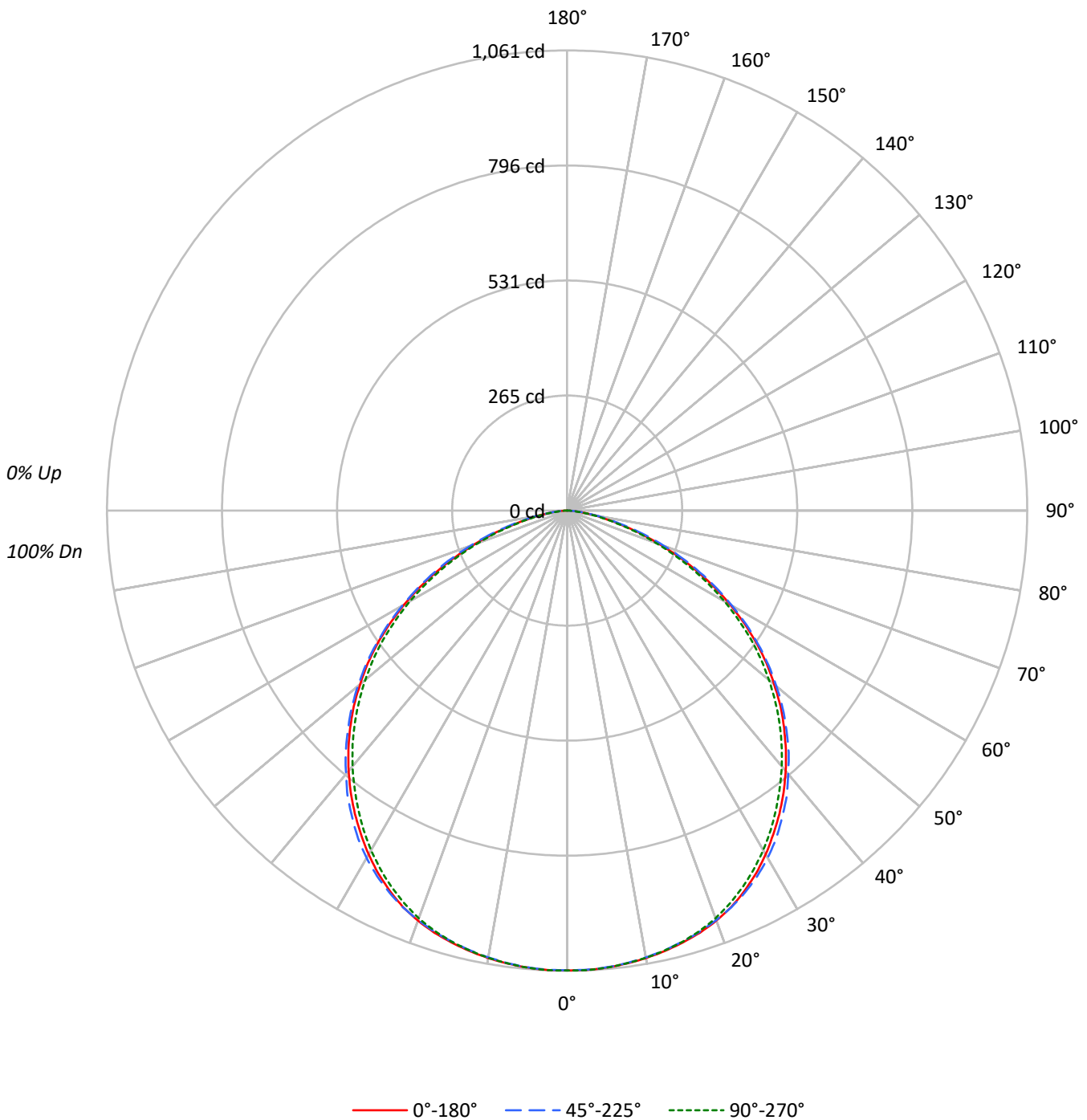
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2898.0 lumens
Efficiency: N/A
Efficacy: 112.3 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°	1426	1426	1426
5°	1428	1428	1429
10°	1431	1429	1430
15°	1436	1433	1433
20°	1441	1439	1432
25°	1437	1442	1422
30°	1422	1437	1404
35°	1401	1419	1380
40°	1377	1393	1352
45°	1346	1360	1318
50°	1304	1319	1272
55°	1251	1262	1213
60°	1167	1181	1127
65°	1052	1078	1011
70°	893	932	857
75°	691	742	660
80°	514	537	466
85°	318	340	295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.5
10°-20°	290.8	10.0
20°-30°	445.3	15.4
30°-40°	535.7	18.5
40°-50°	546.2	18.8
50°-60°	473.6	16.3
60°-70°	328.3	11.3
70°-80°	149.9	5.2
80°-90°	27.7	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°	836.6	28.9
0°-40°	1372.3	47.4
0°-60°	2392.1	82.5
0°-90°	2898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1058	1058	1057	1056	1058	101
15°	1031	1031	1029	1028	1029	291
25°	968	970	971	963	958	446
35°	853	862	864	853	840	533
45°	707	716	715	705	692	545
55°	533	536	538	524	517	475
65°	330	338	339	327	318	327
75°	133	140	143	138	127	146
85°	21	21	22	21	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.2	1060.2	1060.2	1060.2	1060.2
2.5°	1060.2	1060.2	1059.6	1059.1	1060.8
5°	1057.6	1057.6	1057.0	1056.4	1057.9
7.5°	1053.5	1053.2	1052.6	1052.0	1052.9
10°	1047.6	1047.3	1046.1	1045.8	1047.0
12.5°	1040.3	1040.0	1038.2	1038.2	1039.1
15°	1030.9	1030.6	1028.8	1027.9	1029.1
17.5°	1020.3	1020.0	1017.9	1015.6	1016.2
20°	1006.2	1006.2	1004.7	1001.2	1000.3
22.5°	989.2	990.0	990.0	983.3	980.6
25°	967.7	970.4	971.2	962.7	957.7
27.5°	943.3	947.5	949.8	938.9	932.5
30°	915.4	922.2	925.1	913.4	904.0
32.5°	884.9	893.4	896.9	885.5	873.4
35°	853.2	862.3	864.0	852.9	840.3
37.5°	819.4	828.8	831.2	821.2	805.6
40°	783.9	793.3	793.3	785.0	769.8
42.5°	746.3	756.3	756.0	746.0	732.2
45°	707.2	716.0	714.9	705.2	692.5
47.5°	667.0	672.6	674.0	662.6	650.5
50°	622.9	628.5	630.0	617.1	607.7
52.5°	579.5	583.0	585.0	570.1	563.3
55°	533.1	536.3	537.8	524.5	517.2
57.5°	484.0	488.1	489.9	476.7	468.4
60°	433.8	438.2	438.8	426.4	418.8
62.5°	382.7	388.6	389.7	377.4	368.3
65°	330.4	337.5	338.6	327.2	317.5
67.5°	278.1	287.5	287.8	278.4	267.0
70°	227.0	237.3	237.0	229.1	217.9
72.5°	178.3	187.7	189.7	182.4	171.5
75°	133.0	140.4	142.7	138.0	126.9
77.5°	94.6	101.3	103.4	99.0	90.8
80°	66.4	66.7	69.3	65.8	60.2
82.5°	41.1	40.5	41.4	39.9	36.7
85°	20.6	21.1	22.0	20.9	19.1
87.5°	7.0	7.3	7.9	7.9	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)