

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: P413173

Luminaire Tested: **24PD-30-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413173
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-30-PC3-L835
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

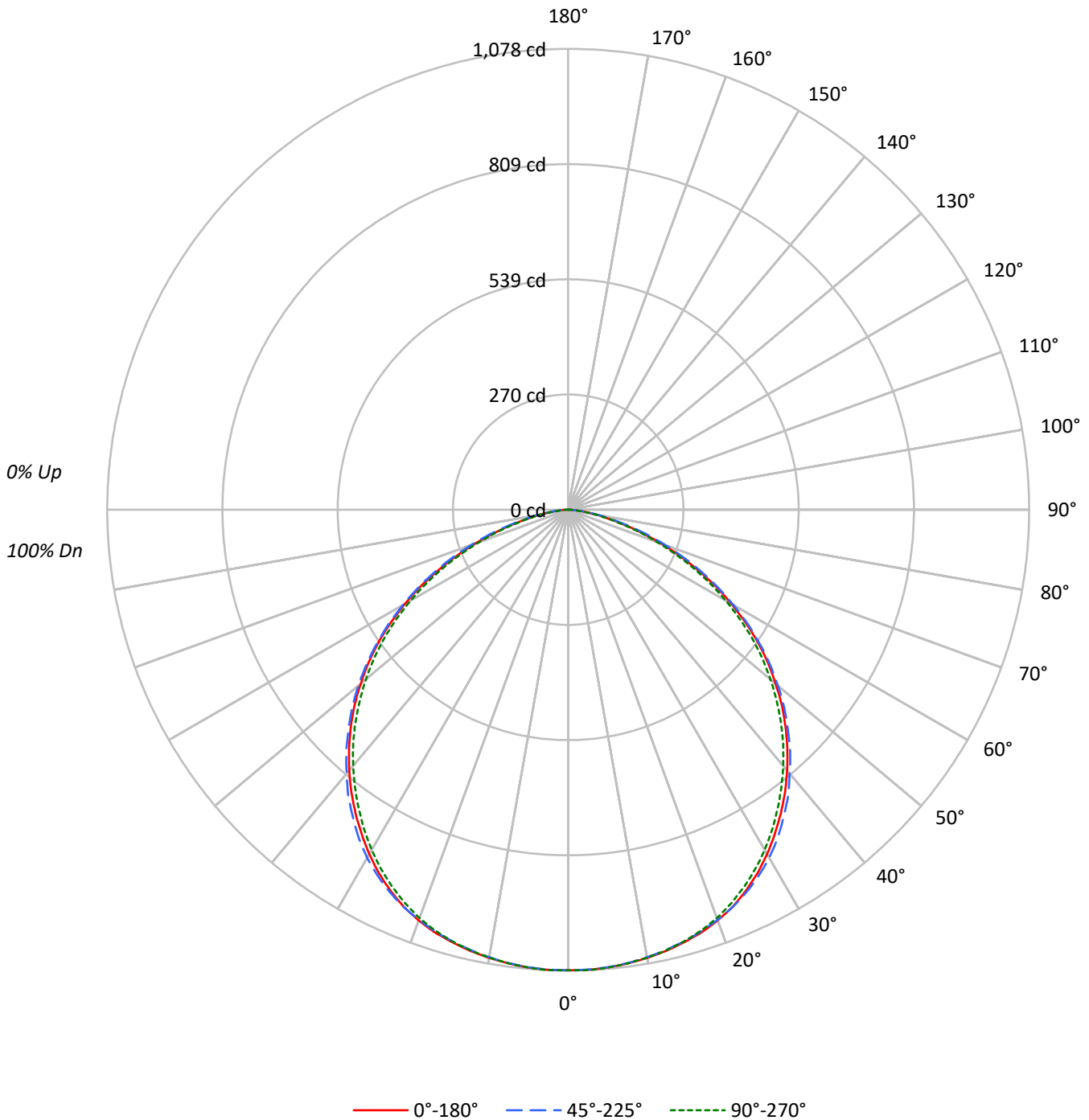
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2945.0 lumens
Efficiency: N/A
Efficacy: 133.9 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): 22
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

TEST NUMBER: P413173
CATALOG NUMBER: 24PD-30-PC3-L835

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	68	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°	1450	1450	1450
5°	1452	1451	1452
10°	1455	1452	1454
15°	1459	1456	1457
20°	1464	1462	1455
25°	1460	1465	1445
30°	1445	1461	1427
35°	1424	1442	1403
40°	1399	1416	1374
45°	1368	1382	1339
50°	1325	1340	1293
55°	1271	1282	1233
60°	1186	1200	1145
65°	1069	1096	1027
70°	908	948	871
75°	703	754	670
80°	523	545	474
85°	323	346	299



TEST NUMBER: P413173

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	3.5
10°-20°	295.5	10.0
20°-30°	452.5	15.4
30°-40°	544.4	18.5
40°-50°	555.1	18.8
50°-60°	481.2	16.3
60°-70°	333.6	11.3
70°-80°	152.4	5.2
80°-90°	28.2	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°	850.2	28.9
0°-40°	1394.5	47.4
0°-60°	2430.8	82.5
0°-90°	2945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1075	1075	1074	1074	1075	102
15°	1048	1047	1046	1045	1046	296
25°	983	986	987	978	973	453
35°	867	876	878	867	854	542
45°	719	728	726	717	704	554
55°	542	545	546	533	526	483
65°	336	343	344	332	323	332
75°	135	143	145	140	129	148
85°	21	22	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°	1077.4	1077.4	1077.4	1077.4	1077.4
2.5°	1077.4	1077.4	1076.8	1076.2	1078.0
5°	1074.7	1074.7	1074.1	1073.6	1075.0
7.5°	1070.6	1070.3	1069.7	1069.1	1070.0
10°	1064.6	1064.3	1063.1	1062.8	1064.0
12.5°	1057.1	1056.8	1055.0	1055.0	1055.9
15°	1047.6	1047.3	1045.5	1044.6	1045.8
17.5°	1036.8	1036.5	1034.5	1032.1	1032.7
20°	1022.5	1022.5	1021.0	1017.4	1016.5
22.5°	1005.2	1006.1	1006.1	999.2	996.5
25°	983.4	986.1	987.0	978.3	973.3
27.5°	958.6	962.8	965.2	954.2	947.6
30°	930.3	937.2	940.1	928.2	918.7
32.5°	899.3	907.9	911.5	899.8	887.6
35°	867.0	876.3	878.1	866.7	853.9
37.5°	832.7	842.2	844.6	834.5	818.7
40°	796.6	806.1	806.1	797.8	782.3
42.5°	758.4	768.5	768.2	758.1	744.1
45°	718.7	727.6	726.4	716.6	703.8
47.5°	677.8	683.5	685.0	673.3	661.1
50°	633.0	638.7	640.2	627.1	617.5
52.5°	588.9	592.4	594.5	579.3	572.4
55°	541.7	545.0	546.5	533.0	525.6
57.5°	491.9	496.0	497.8	484.4	476.0
60°	440.8	445.3	445.9	433.4	425.6
62.5°	388.9	394.9	396.1	383.5	374.3
65°	335.8	342.9	344.1	332.5	322.6
67.5°	282.6	292.2	292.5	282.9	271.3
70°	230.7	241.2	240.9	232.8	221.5
72.5°	181.2	190.7	192.8	185.3	174.3
75°	135.2	142.7	145.1	140.3	128.9
77.5°	96.1	103.0	105.1	100.6	92.2
80°	67.5	67.7	70.4	66.9	61.2
82.5°	41.8	41.2	42.1	40.6	37.3
85°	20.9	21.5	22.4	21.2	19.4
87.5°	7.2	7.5	8.1	8.1	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)