

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: P413176

Luminaire Tested: **24PD-30-PC3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413176
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-L927
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

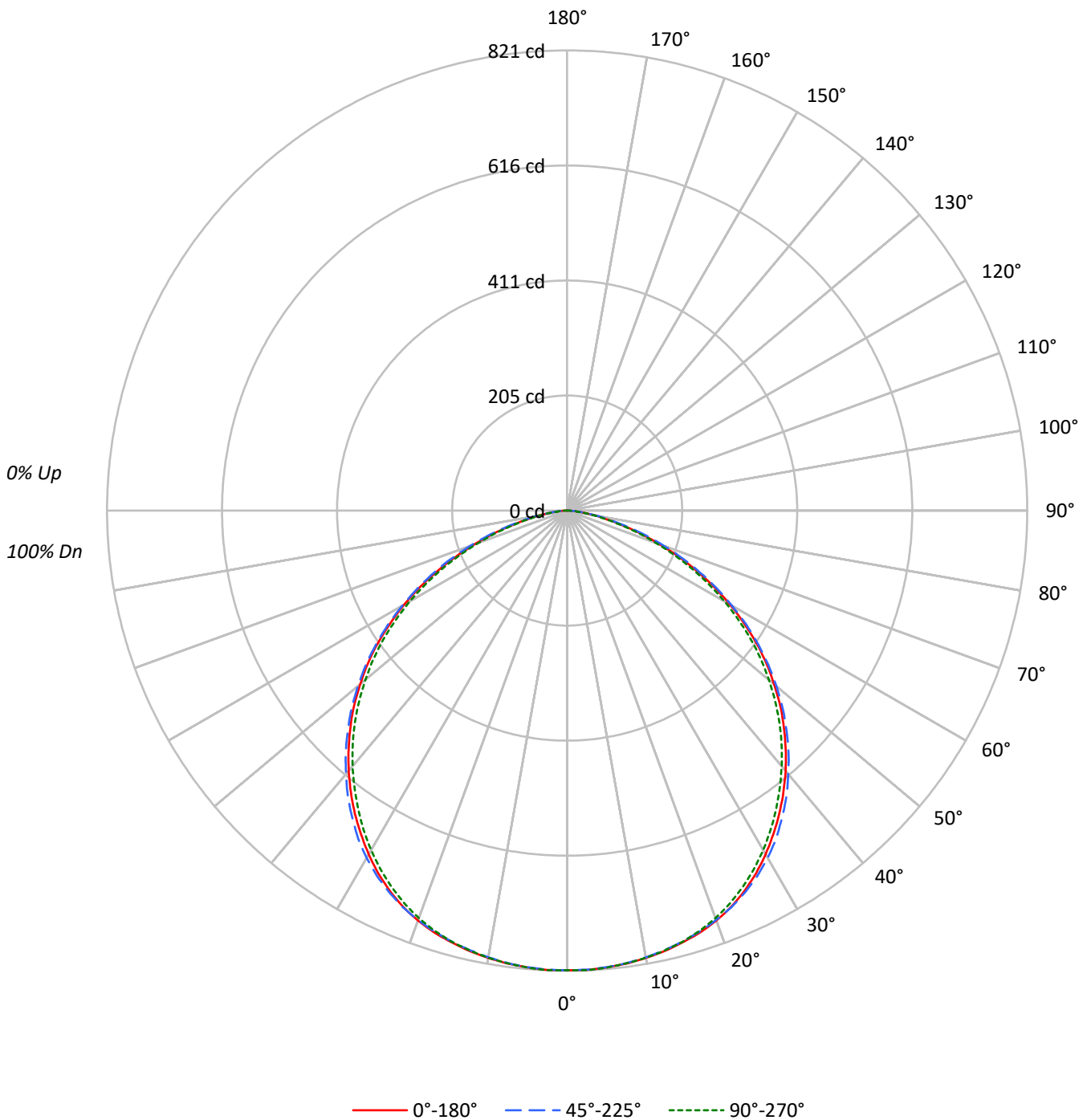
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2242.0 lumens
Efficiency: N/A
Efficacy: 101.9 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

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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°	1104	1104	1104
5°	1105	1104	1105
10°	1107	1106	1107
15°	1111	1109	1109
20°	1115	1113	1108
25°	1112	1116	1100
30°	1100	1112	1087
35°	1084	1098	1068
40°	1065	1078	1046
45°	1041	1052	1020
50°	1009	1020	984
55°	967	976	939
60°	903	914	872
65°	814	834	782
70°	691	721	663
75°	535	574	510
80°	398	415	361
85°	245	262	228



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	3.5
10°-20°	224.9	10.0
20°-30°	344.5	15.4
30°-40°	414.4	18.5
40°-50°	422.6	18.8
50°-60°	366.4	16.3
60°-70°	254.0	11.3
70°-80°	116.0	5.2
80°-90°	21.4	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°	647.2	28.9
0°-40°	1061.6	47.4
0°-60°	1850.6	82.5
0°-90°	2242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	818	818	818	817	818	78
15°	798	797	796	795	796	225
25°	749	751	751	745	741	345
35°	660	667	668	660	650	413
45°	547	554	553	546	536	422
55°	412	415	416	406	400	367
65°	256	261	262	253	246	253
75°	103	109	110	107	98	113
85°	16	16	17	16	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.2	820.2	820.2	820.2	820.2
2.5°	820.2	820.2	819.8	819.3	820.7
5°	818.2	818.2	817.7	817.3	818.4
7.5°	815.0	814.8	814.3	813.9	814.6
10°	810.5	810.2	809.3	809.1	810.0
12.5°	804.8	804.6	803.2	803.2	803.9
15°	797.5	797.3	795.9	795.2	796.2
17.5°	789.3	789.1	787.5	785.7	786.2
20°	778.4	778.4	777.3	774.6	773.9
22.5°	765.3	765.9	765.9	760.7	758.7
25°	748.7	750.7	751.4	744.8	740.9
27.5°	729.8	733.0	734.8	726.4	721.4
30°	708.2	713.4	715.7	706.6	699.4
32.5°	684.6	691.2	693.9	685.0	675.7
35°	660.1	667.1	668.5	659.8	650.1
37.5°	633.9	641.2	643.0	635.3	623.2
40°	606.4	613.7	613.7	607.3	595.5
42.5°	577.3	585.1	584.8	577.1	566.4
45°	547.1	553.9	553.0	545.5	535.8
47.5°	516.0	520.3	521.5	512.6	503.3
50°	481.9	486.2	487.4	477.4	470.1
52.5°	448.3	451.0	452.6	441.0	435.8
55°	412.4	414.9	416.0	405.8	400.1
57.5°	374.4	377.6	379.0	368.8	362.4
60°	335.6	339.0	339.5	329.9	324.0
62.5°	296.1	300.6	301.5	292.0	284.9
65°	255.6	261.1	262.0	253.1	245.6
67.5°	215.2	222.4	222.7	215.4	206.5
70°	175.6	183.6	183.4	177.2	168.6
72.5°	137.9	145.2	146.8	141.1	132.7
75°	102.9	108.6	110.4	106.8	98.2
77.5°	73.2	78.4	80.0	76.6	70.2
80°	51.4	51.6	53.6	50.9	46.6
82.5°	31.8	31.4	32.0	30.9	28.4
85°	15.9	16.4	17.0	16.1	14.8
87.5°	5.5	5.7	6.1	6.1	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)