

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: P412853

Luminaire Tested: **24PD-40-PP3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-40-PP3-L930
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

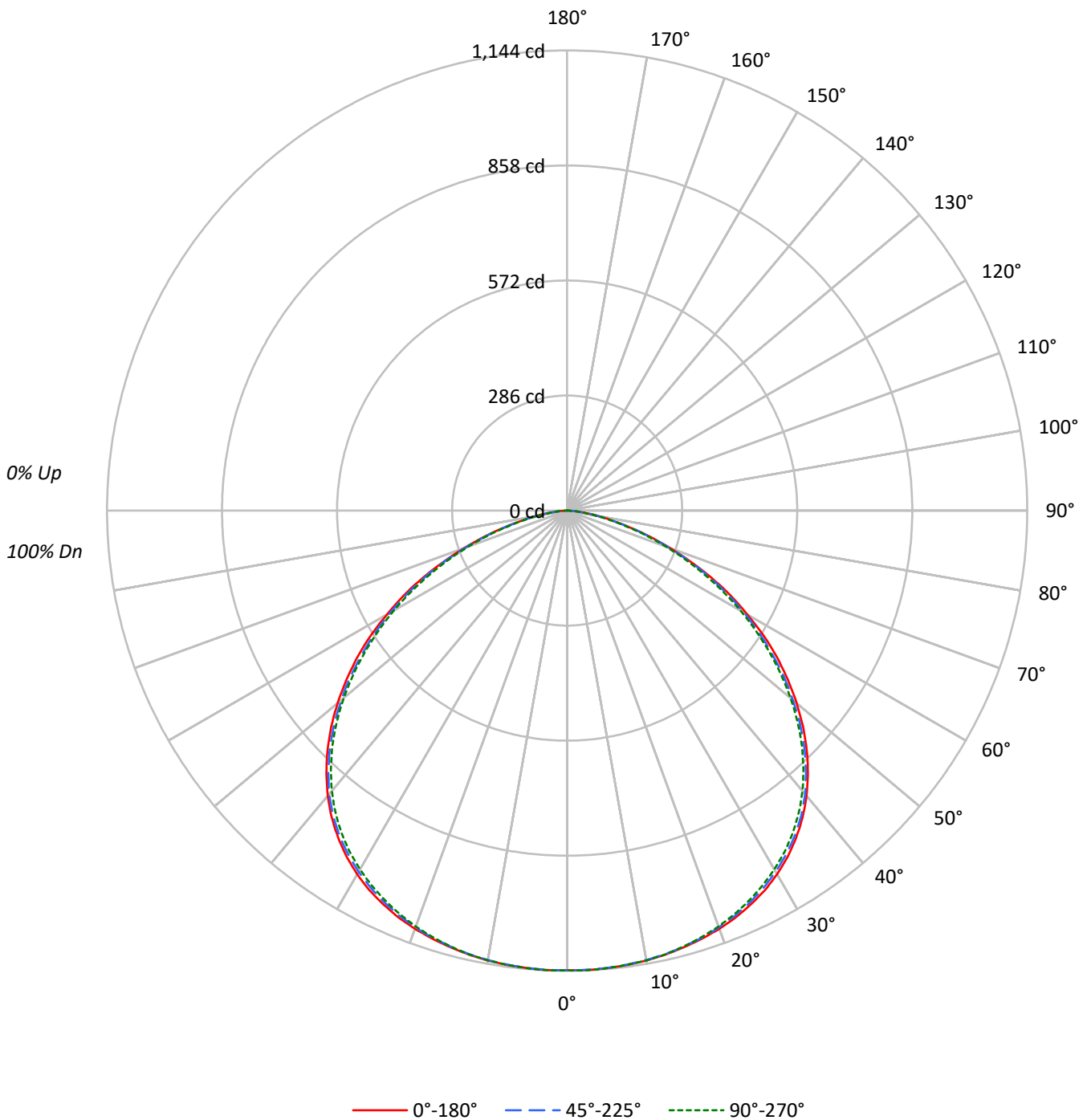
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3326.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.7
Input Voltage (V): NR
Input Current (A_{in}): 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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60					60			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52					52			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1538	1538	1538
5°	1542	1542	1543
10°	1552	1550	1551
15°	1565	1563	1562
20°	1584	1579	1575
25°	1604	1596	1588
30°	1622	1611	1600
35°	1631	1621	1606
40°	1626	1617	1599
45°	1603	1588	1570
50°	1559	1534	1518
55°	1495	1459	1440
60°	1393	1368	1341
65°	1262	1237	1201
70°	1078	1058	1024
75°	842	833	793
80°	621	595	562
85°	375	375	349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	3.3
10°-20°	317.3	9.5
20°-30°	496.0	14.9
30°-40°	616.4	18.5
40°-50°	642.3	19.3
50°-60°	557.3	16.8
60°-70°	383.2	11.5
70°-80°	172.9	5.2
80°-90°	31.7	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°	922.1	27.7
0°-40°	1538.5	46.3
0°-60°	2738.2	82.3
0°-90°	3326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1142	1142	1141	1140	1142	109
15°	1124	1124	1122	1121	1121	318
25°	1081	1080	1075	1071	1070	498
35°	993	993	987	981	978	620
45°	843	843	834	828	825	649
55°	637	634	622	615	614	568
65°	396	395	389	379	377	391
75°	162	162	160	156	153	176
85°	24	24	24	24	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.0	1143.0	1143.0	1143.0	1143.0
2.5°	1143.4	1143.4	1142.7	1141.7	1144.0
5°	1141.7	1142.1	1141.4	1140.4	1142.1
7.5°	1139.4	1139.7	1138.7	1137.7	1139.1
10°	1135.7	1135.4	1134.4	1133.7	1135.4
12.5°	1130.4	1130.1	1129.1	1128.4	1129.8
15°	1123.8	1123.8	1122.1	1121.1	1121.4
17.5°	1115.8	1115.8	1113.5	1111.1	1111.8
20°	1106.5	1106.2	1102.8	1100.5	1100.2
22.5°	1094.9	1094.9	1090.2	1087.2	1086.2
25°	1080.6	1080.2	1074.9	1070.6	1069.9
27.5°	1064.3	1063.6	1057.3	1053.0	1051.3
30°	1044.0	1043.3	1036.7	1032.0	1030.0
32.5°	1020.1	1021.1	1013.4	1008.1	1006.1
35°	992.8	992.8	986.8	981.2	977.9
37.5°	961.6	961.6	955.9	950.3	946.3
40°	926.0	926.3	920.4	913.4	910.1
42.5°	886.1	886.8	878.8	873.2	869.5
45°	842.6	842.9	834.3	828.0	825.0
47.5°	795.4	794.7	785.1	779.8	776.8
50°	744.9	743.5	732.9	727.9	725.2
52.5°	692.0	689.4	680.0	672.7	670.4
55°	637.2	633.5	621.9	614.6	613.9
57.5°	580.0	575.7	566.0	559.1	556.4
60°	517.5	516.5	508.5	500.2	498.2
62.5°	459.0	456.0	449.0	439.1	438.1
65°	396.5	394.9	388.6	379.2	377.2
67.5°	332.0	333.7	328.4	320.1	317.4
70°	273.9	274.9	268.9	261.2	260.3
72.5°	215.4	217.0	212.1	207.1	206.1
75°	161.9	162.5	160.2	155.9	152.6
77.5°	115.0	117.3	114.7	111.7	109.0
80°	80.1	76.4	76.8	75.4	72.5
82.5°	48.2	46.5	46.2	44.9	43.5
85°	24.3	23.9	24.3	23.9	22.6
87.5°	8.0	8.6	9.0	9.0	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)