

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: P412488

Luminaire Tested: **24PD-30-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-30-PB1-L830
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

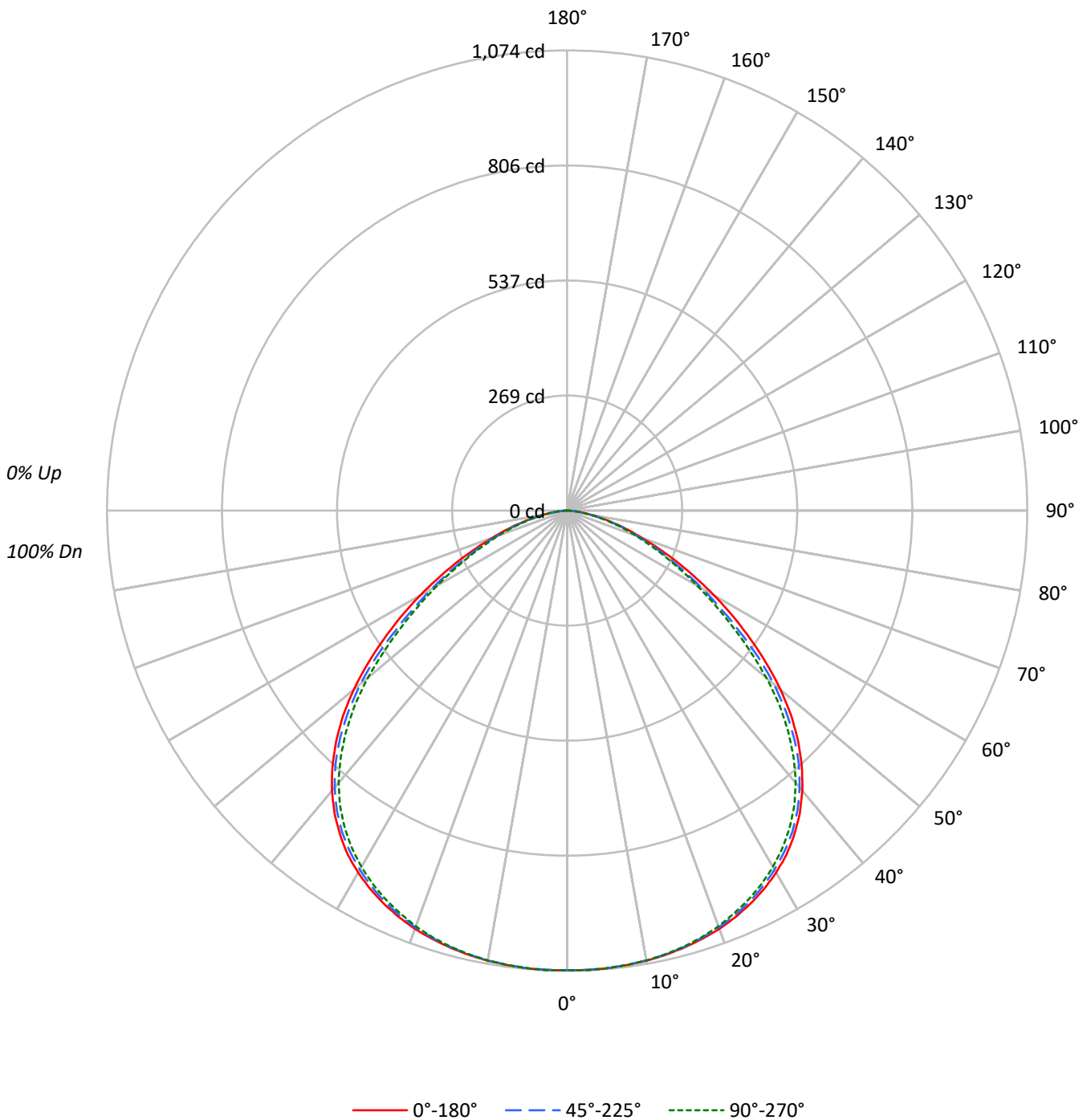
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2854.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1443	1443	1443
5°	1448	1448	1448
10°	1458	1456	1456
15°	1471	1469	1467
20°	1487	1482	1478
25°	1503	1495	1487
30°	1516	1503	1492
35°	1518	1504	1486
40°	1500	1482	1457
45°	1451	1425	1388
50°	1361	1319	1270
55°	1223	1150	1103
60°	1065	980	942
65°	896	829	793
70°	730	694	665
75°	585	565	541
80°	449	414	403
85°	281	272	272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.6
10°-20°	298.1	10.4
20°-30°	464.3	16.3
30°-40°	571.2	20.0
40°-50°	573.8	20.1
50°-60°	442.2	15.5
60°-70°	262.5	9.2
70°-80°	116.9	4.1
80°-90°	22.8	0.8
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°	864.5	30.3
0°-40°	1435.8	50.3
0°-60°	2451.8	85.9
0°-90°	2854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1072	1072	1072	1071	1072	102
15°	1056	1056	1054	1053	1054	299
25°	1012	1012	1007	1003	1002	467
35°	924	922	916	908	905	577
45°	763	761	749	736	729	585
55°	521	511	490	476	470	466
65°	281	269	260	250	249	281
75°	113	110	109	105	104	122
85°	18	17	18	17	18	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1072.6	1072.6	1072.6	1072.6	1072.6
2.5°	1073.1	1072.9	1072.9	1071.7	1074.0
5°	1072.0	1072.3	1072.0	1070.9	1072.0
7.5°	1069.7	1070.0	1069.4	1068.3	1069.4
10°	1066.9	1066.9	1065.7	1065.2	1066.0
12.5°	1062.1	1062.1	1060.9	1060.1	1060.9
15°	1055.8	1055.8	1054.4	1052.7	1053.5
17.5°	1048.1	1048.1	1045.8	1043.6	1044.1
20°	1038.7	1038.5	1035.3	1032.2	1032.5
22.5°	1026.8	1026.5	1022.5	1018.8	1017.7
25°	1012.3	1012.0	1007.2	1002.6	1001.5
27.5°	995.5	994.4	989.0	983.9	982.7
30°	975.6	974.8	967.7	962.6	960.3
32.5°	952.6	950.3	943.8	937.5	934.4
35°	923.9	922.5	915.9	908.3	904.6
37.5°	891.5	890.1	883.0	874.4	870.2
40°	854.0	852.8	844.0	835.2	829.8
42.5°	810.8	809.9	800.5	788.3	782.6
45°	762.7	760.7	748.8	736.3	729.4
47.5°	709.3	705.9	691.4	679.4	672.0
50°	650.1	645.6	630.0	614.6	606.9
52.5°	586.2	578.2	562.0	544.4	537.0
55°	521.4	511.4	490.4	475.6	470.2
57.5°	458.0	443.5	423.6	413.1	407.7
60°	395.7	379.8	364.2	353.9	350.2
62.5°	336.3	322.9	309.6	299.3	297.1
65°	281.4	269.2	260.4	250.4	249.0
67.5°	230.3	224.6	216.6	208.1	207.0
70°	185.6	183.4	176.3	171.1	169.1
72.5°	148.1	145.8	140.7	137.0	136.5
75°	112.6	110.3	108.6	104.9	104.0
77.5°	80.2	80.4	79.0	77.0	77.6
80°	58.0	54.6	53.4	52.3	52.0
82.5°	35.5	33.5	32.7	32.4	33.0
85°	18.2	17.3	17.6	16.8	17.6
87.5°	6.3	6.3	6.5	6.3	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)