

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: P412551

Luminaire Tested: **24PD-65-PB1-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412551
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-65-PB1-L830
Description: 6500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

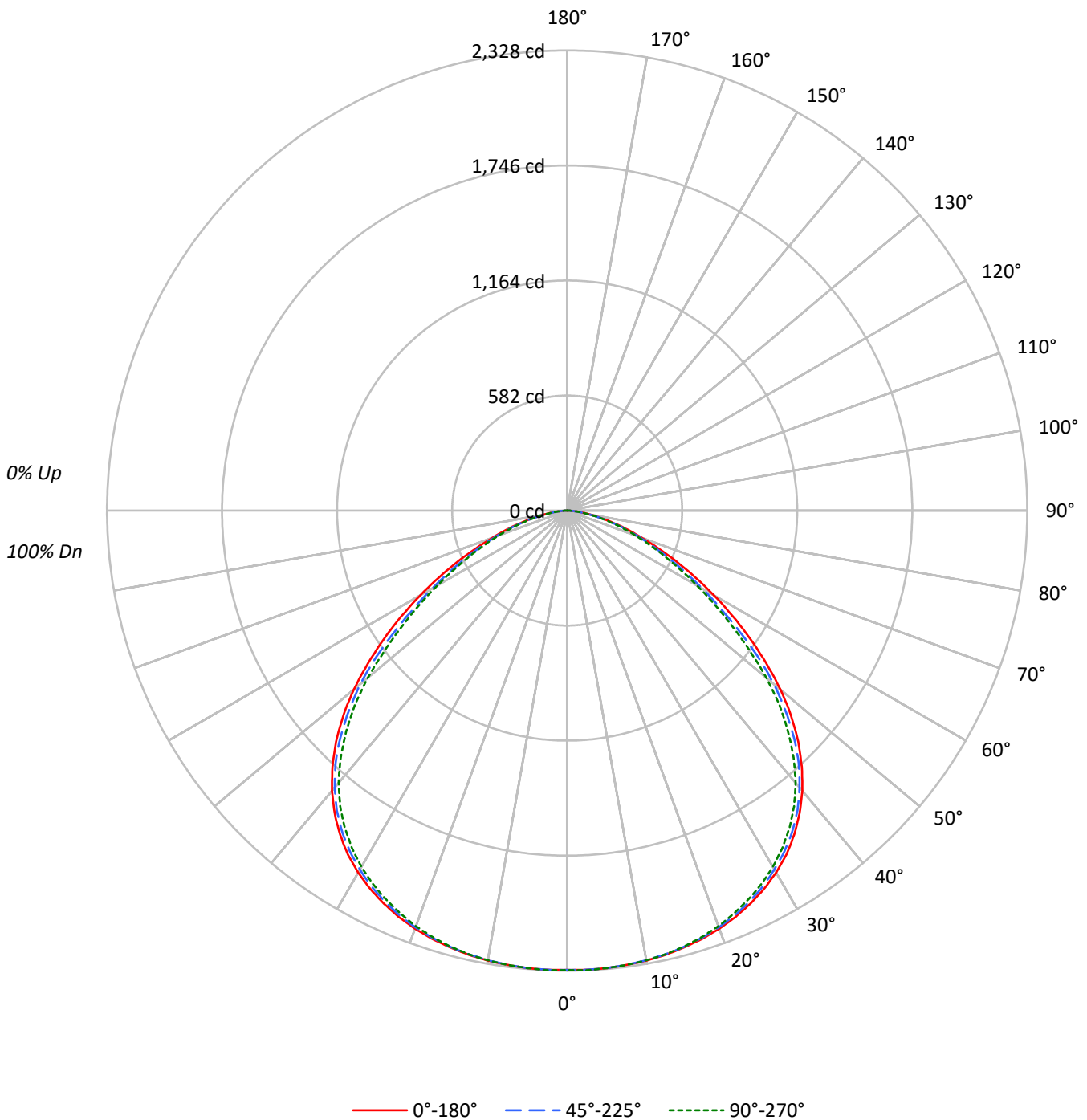
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6185.0 lumens
Efficiency: N/A
Efficacy: 124.4 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): 49.7
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°	3127	3127	3127
5°	3138	3138	3138
10°	3159	3155	3156
15°	3187	3183	3180
20°	3223	3213	3204
25°	3257	3240	3222
30°	3285	3258	3233
35°	3289	3260	3220
40°	3251	3213	3159
45°	3145	3088	3008
50°	2949	2858	2753
55°	2651	2493	2390
60°	2308	2124	2042
65°	1942	1797	1718
70°	1583	1503	1442
75°	1268	1223	1172
80°	974	897	873
85°	608	590	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	3.6
10°-20°	645.9	10.4
20°-30°	1006.3	16.3
30°-40°	1237.9	20.0
40°-50°	1243.5	20.1
50°-60°	958.4	15.5
60°-70°	568.9	9.2
70°-80°	253.3	4.1
80°-90°	49.5	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°	1873.5	30.3
0°-40°	3111.5	50.3
0°-60°	5313.3	85.9
0°-90°	6185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2324	2324	2324	2324	2324	
5°	2323	2324	2323	2321	2323	221
15°	2288	2288	2285	2281	2283	647
25°	2194	2193	2183	2173	2170	1012
35°	2002	1999	1985	1968	1960	1250
45°	1653	1649	1623	1596	1581	1269
55°	1130	1108	1063	1031	1019	1010
65°	610	583	564	543	540	609
75°	244	239	235	227	226	264
85°	39	38	38	36	38	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2324.4	2324.4	2324.4	2324.4	2324.4
2.5°	2325.6	2325.0	2325.0	2322.6	2327.5
5°	2323.2	2323.8	2323.2	2320.7	2323.2
7.5°	2318.2	2318.9	2317.6	2315.2	2317.6
10°	2312.1	2312.1	2309.6	2308.4	2310.2
12.5°	2301.6	2301.6	2299.1	2297.3	2299.1
15°	2288.1	2288.1	2285.0	2281.3	2283.1
17.5°	2271.4	2271.4	2266.5	2261.6	2262.8
20°	2251.1	2250.5	2243.7	2236.9	2237.5
22.5°	2225.2	2224.6	2216.0	2208.0	2205.5
25°	2193.8	2193.2	2182.7	2172.9	2170.4
27.5°	2157.4	2155.0	2143.3	2132.2	2129.7
30°	2114.3	2112.5	2097.1	2086.0	2081.1
32.5°	2064.4	2059.5	2045.3	2031.8	2025.0
35°	2002.2	1999.1	1985.0	1968.3	1960.3
37.5°	1932.0	1928.9	1913.5	1895.0	1885.8
40°	1850.7	1848.2	1829.1	1810.0	1798.3
42.5°	1757.0	1755.2	1734.8	1708.3	1696.0
45°	1652.9	1648.6	1622.7	1595.6	1580.8
47.5°	1537.1	1529.7	1498.3	1472.4	1456.4
50°	1408.9	1399.1	1365.2	1331.9	1315.3
52.5°	1270.3	1253.1	1218.0	1179.8	1163.7
55°	1129.9	1108.3	1062.7	1030.7	1019.0
57.5°	992.5	961.1	917.9	895.1	883.4
60°	857.6	823.1	789.2	767.0	759.0
62.5°	728.8	699.8	670.9	648.7	643.8
65°	609.9	583.4	564.3	542.8	539.7
67.5°	499.0	486.7	469.4	451.0	448.5
70°	402.3	397.4	382.0	370.9	366.6
72.5°	321.0	316.0	305.0	296.9	295.7
75°	244.0	239.0	235.3	227.3	225.5
77.5°	173.7	174.3	171.3	167.0	168.2
80°	125.7	118.3	115.8	113.4	112.7
82.5°	77.0	72.7	70.8	70.2	71.5
85°	39.4	37.6	38.2	36.3	38.2
87.5°	13.6	13.6	14.2	13.6	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)