

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: P412915

Luminaire Tested: **24PD-75-PP3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412915
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-75-PP3-L927
Description: 7500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

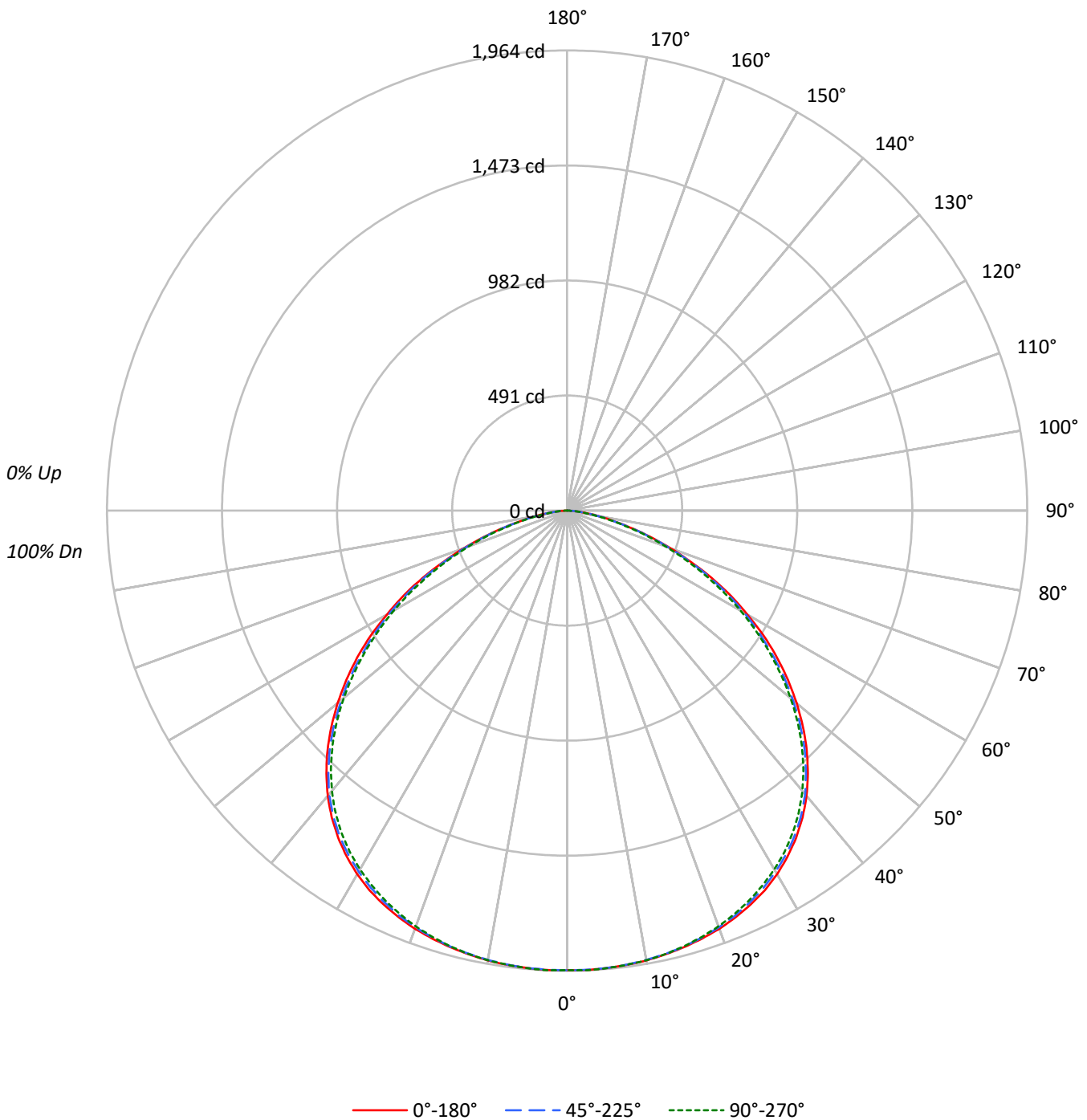
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5709.0 lumens
Efficiency: N/A
Efficacy: 101.4 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): 56.3
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	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2640	2640	2640
5°	2647	2646	2648
10°	2663	2660	2663
15°	2687	2683	2681
20°	2719	2710	2704
25°	2754	2739	2726
30°	2784	2765	2747
35°	2799	2782	2757
40°	2792	2775	2744
45°	2752	2725	2694
50°	2676	2633	2606
55°	2566	2504	2472
60°	2390	2349	2301
65°	2167	2123	2061
70°	1849	1816	1757
75°	1444	1430	1362
80°	1065	1021	964
85°	642	642	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	3.3
10°-20°	544.7	9.5
20°-30°	851.4	14.9
30°-40°	1058.1	18.5
40°-50°	1102.5	19.3
50°-60°	956.6	16.8
60°-70°	657.8	11.5
70°-80°	296.8	5.2
80°-90°	54.4	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°	1582.7	27.7
0°-40°	2640.9	46.3
0°-60°	4700.0	82.3
0°-90°	5709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1960	1960	1959	1958	1960	187
15°	1929	1929	1926	1924	1925	546
25°	1855	1854	1845	1838	1836	856
35°	1704	1704	1694	1684	1678	1065
45°	1446	1447	1432	1421	1416	1113
55°	1094	1087	1067	1055	1054	975
65°	681	678	667	651	648	672
75°	278	279	275	268	262	302
85°	42	41	42	41	39	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1962.0	1962.0	1962.0	1962.0	1962.0
2.5°	1962.6	1962.6	1961.4	1959.7	1963.7
5°	1959.7	1960.3	1959.2	1957.5	1960.3
7.5°	1955.7	1956.3	1954.6	1952.9	1955.2
10°	1949.5	1948.9	1947.2	1946.0	1948.9
12.5°	1940.3	1939.8	1938.1	1936.9	1939.2
15°	1928.9	1928.9	1926.1	1924.4	1924.9
17.5°	1915.2	1915.2	1911.2	1907.2	1908.4
20°	1899.3	1898.7	1893.0	1889.0	1888.4
22.5°	1879.3	1879.3	1871.3	1866.2	1864.5
25°	1854.8	1854.2	1845.1	1837.6	1836.5
27.5°	1826.8	1825.7	1814.8	1807.4	1804.6
30°	1792.0	1790.9	1779.5	1771.5	1768.0
32.5°	1750.9	1752.6	1739.5	1730.4	1727.0
35°	1704.1	1704.1	1693.9	1684.2	1678.5
37.5°	1650.5	1650.5	1640.8	1631.1	1624.3
40°	1589.5	1590.0	1579.8	1567.8	1562.1
42.5°	1521.0	1522.1	1508.5	1498.8	1492.5
45°	1446.3	1446.8	1432.0	1421.2	1416.0
47.5°	1365.3	1364.1	1347.6	1338.4	1333.3
50°	1278.5	1276.3	1258.0	1249.4	1244.9
52.5°	1187.8	1183.3	1167.3	1154.7	1150.7
55°	1093.7	1087.4	1067.4	1054.9	1053.7
57.5°	995.6	988.1	971.6	959.6	955.0
60°	888.3	886.6	872.9	858.6	855.2
62.5°	787.9	782.8	770.8	753.7	751.9
65°	680.6	677.8	666.9	651.0	647.5
67.5°	569.9	572.8	563.7	549.4	544.8
70°	470.1	471.8	461.6	448.4	446.7
72.5°	369.7	372.5	364.0	355.4	353.7
75°	277.8	279.0	275.0	267.6	261.9
77.5°	197.4	201.4	196.8	191.7	187.1
80°	137.5	131.2	131.8	129.5	124.4
82.5°	82.7	79.9	79.3	77.0	74.7
85°	41.6	41.1	41.6	41.1	38.8
87.5°	13.7	14.8	15.4	15.4	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)