

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: P412792

Luminaire Tested: **22PD-70-PP3-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-70-PP3-L940
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

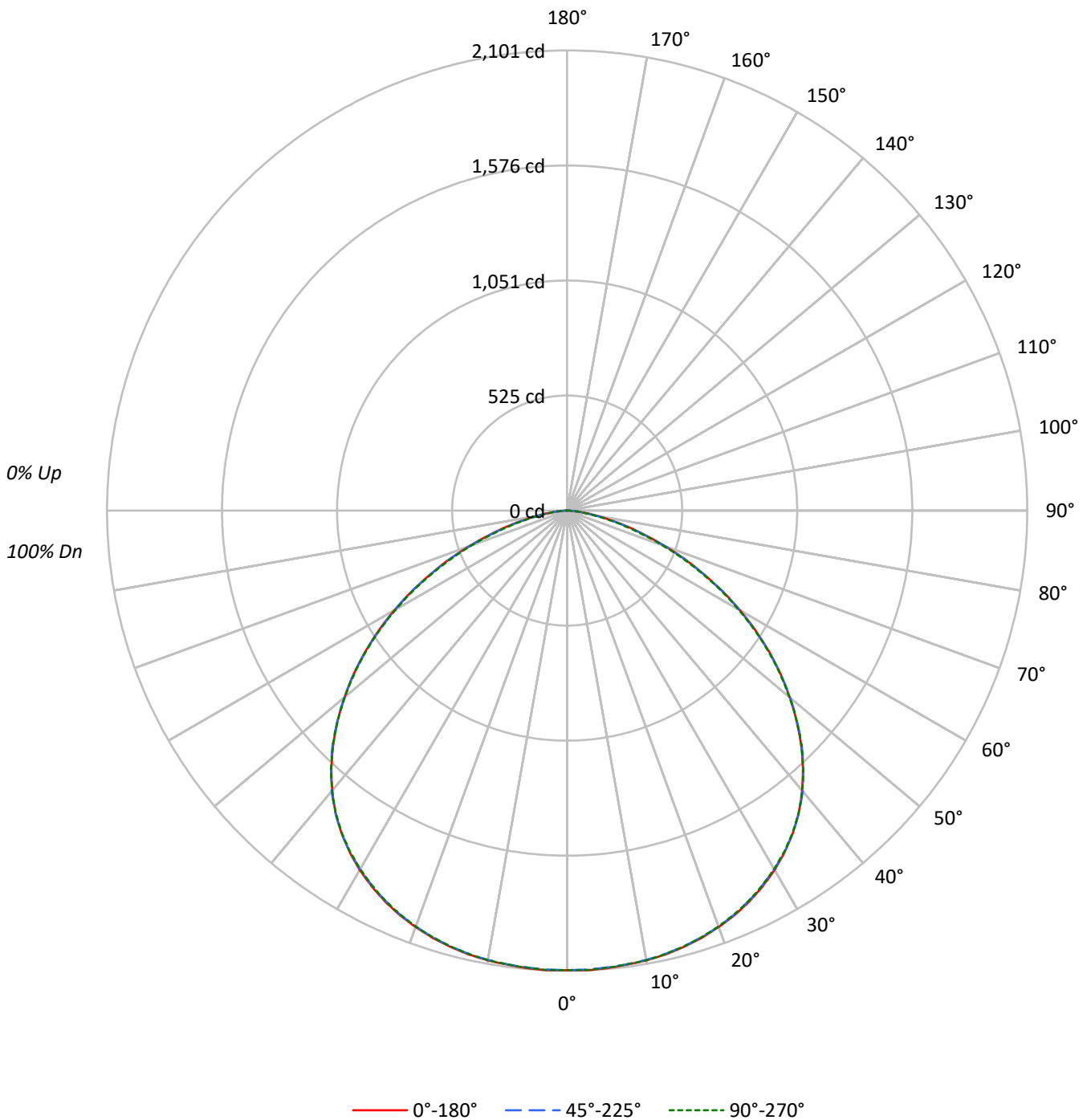
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6020.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 63
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

TEST NUMBER: P412792
CATALOG NUMBER: 22PD-70-PP3-L940

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	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
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°	5646	5646	5646
5°	5664	5656	5660
10°	5699	5691	5695
15°	5744	5738	5738
20°	5794	5788	5786
25°	5845	5835	5835
30°	5886	5876	5873
35°	5903	5903	5896
40°	5865	5877	5865
45°	5748	5764	5756
50°	5555	5564	5549
55°	5288	5275	5265
60°	4909	4898	4860
65°	4385	4381	4332
70°	3748	3726	3644
75°	2986	2899	2811
80°	2128	2084	1976
85°	1383	1383	1340



TEST NUMBER: P412792

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	3.3
10°-20°	582.0	9.7
20°-30°	906.3	15.1
30°-40°	1121.7	18.6
40°-50°	1163.2	19.3
50°-60°	1002.5	16.7
60°-70°	681.6	11.3
70°-80°	305.0	5.1
80°-90°	58.1	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°	1687.9	28.0
0°-40°	2809.6	46.7
0°-60°	4975.3	82.6
0°-90°	6020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2098	2098	2098	2098	2098	
5°	2097	2093	2094	2093	2095	200
15°	2062	2058	2060	2058	2060	583
25°	1969	1966	1965	1964	1965	908
35°	1797	1795	1797	1794	1795	1122
45°	1510	1509	1515	1511	1513	1163
55°	1127	1123	1124	1122	1122	1005
65°	689	694	688	686	680	684
75°	287	288	279	277	270	309
85°	45	46	45	43	43	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2098.2	2098.2	2098.2	2098.2	2098.2
2.5°	2101.0	2096.8	2096.8	2097.5	2099.6
5°	2096.8	2092.6	2094.0	2093.3	2095.4
7.5°	2091.2	2087.7	2089.8	2088.4	2089.8
10°	2085.6	2082.1	2082.8	2082.1	2084.2
12.5°	2075.8	2071.6	2073.0	2073.0	2073.7
15°	2061.8	2058.3	2059.7	2058.3	2059.7
17.5°	2045.0	2040.8	2041.5	2040.8	2042.2
20°	2023.3	2020.5	2021.2	2019.8	2020.5
22.5°	1998.8	1995.3	1996.0	1994.6	1994.6
25°	1968.6	1965.8	1965.1	1964.4	1965.1
27.5°	1933.6	1930.1	1930.1	1929.4	1929.4
30°	1894.4	1890.9	1890.9	1890.2	1890.2
32.5°	1848.1	1846.7	1847.4	1846.0	1845.3
35°	1797.0	1794.9	1797.0	1794.2	1794.9
37.5°	1737.4	1734.6	1738.8	1736.0	1736.7
40°	1669.5	1668.1	1673.0	1670.9	1669.5
42.5°	1593.8	1593.8	1595.9	1596.6	1595.2
45°	1510.5	1509.1	1514.7	1511.2	1512.6
47.5°	1420.8	1418.7	1422.9	1422.2	1421.5
50°	1326.9	1325.5	1329.0	1325.5	1325.5
52.5°	1229.5	1228.8	1229.5	1226.0	1225.3
55°	1127.2	1123.0	1124.4	1122.3	1122.3
57.5°	1020.7	1015.8	1016.5	1015.8	1016.5
60°	912.2	910.8	910.1	906.6	903.0
62.5°	800.8	802.2	801.5	796.6	793.1
65°	688.7	694.3	688.0	685.9	680.3
67.5°	582.9	585.0	580.8	575.9	569.6
70°	476.4	480.6	473.6	468.7	463.1
72.5°	374.8	377.6	371.3	368.5	361.5
75°	287.2	287.9	278.8	277.4	270.4
77.5°	204.6	207.4	200.4	200.4	193.4
80°	137.3	142.2	134.5	132.4	127.5
82.5°	86.2	86.9	84.8	82.7	80.6
85°	44.8	46.2	44.8	43.4	43.4
87.5°	16.8	17.5	16.8	16.1	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)