

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: P412450

Luminaire Tested: **22PD-70-PB1-L940**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-70-PB1-L940
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

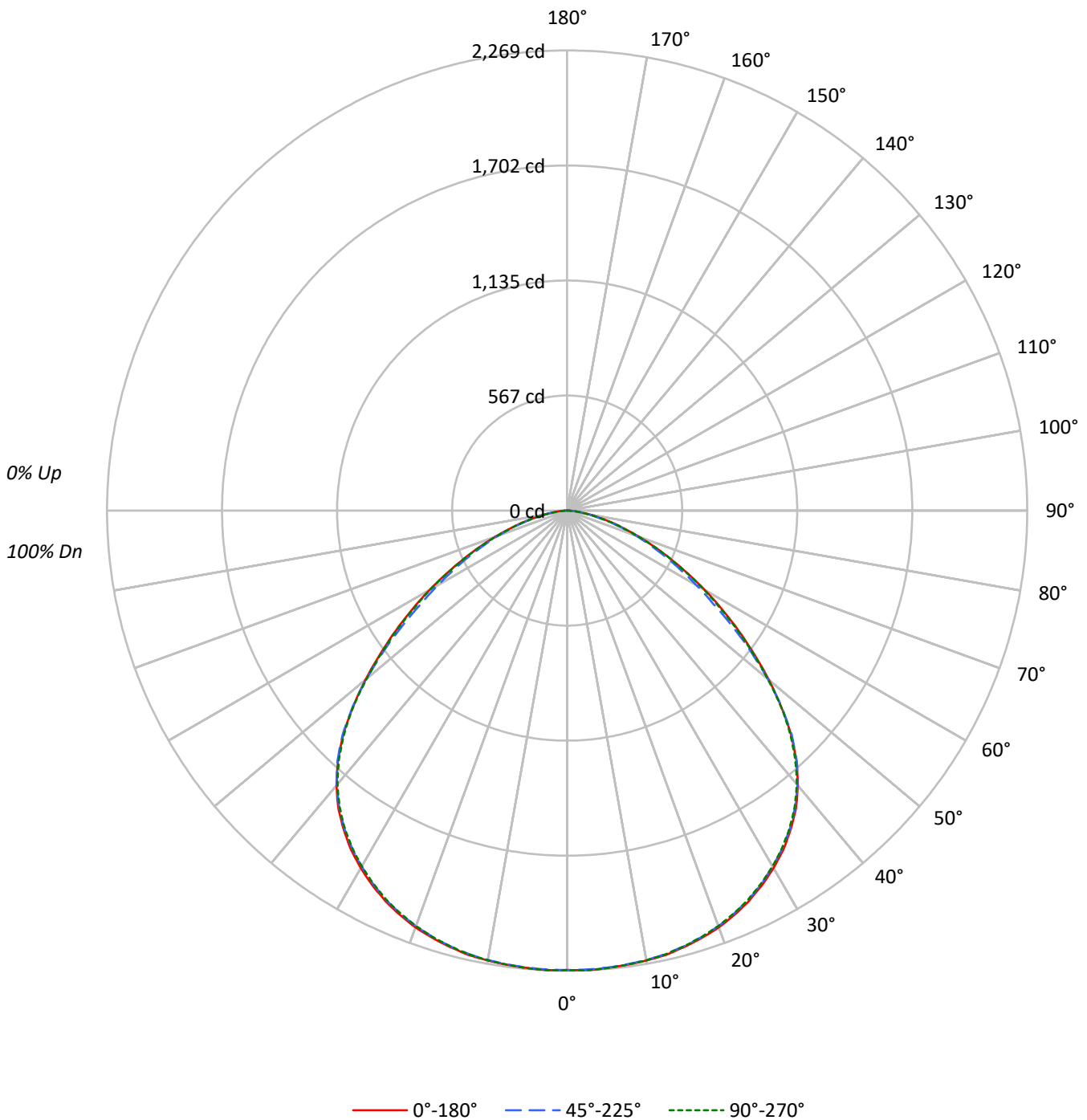
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5948.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
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: P412450
CATALOG NUMBER: 22PD-70-PB1-L940

Luminous Intensity Polar Plot





TEST NUMBER: P412450

CATALOG NUMBER: 22PD-70-PB1-L940

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	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6097	6097	6097
5°	6116	6111	6118
10°	6156	6149	6152
15°	6206	6197	6197
20°	6263	6245	6241
25°	6303	6284	6278
30°	6324	6298	6293
35°	6310	6292	6280
40°	6216	6209	6189
45°	5942	5961	5916
50°	5440	5411	5405
55°	4835	4664	4802
60°	4215	3959	4189
65°	3573	3381	3555
70°	2954	2833	2927
75°	2389	2236	2295
80°	1726	1672	1661
85°	1124	1124	1081



TEST NUMBER: P412450

CATALOG NUMBER: 22PD-70-PB1-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	3.6
10°-20°	628.7	10.6
20°-30°	975.6	16.4
30°-40°	1196.4	20.1
40°-50°	1195.9	20.1
50°-60°	905.9	15.2
60°-70°	543.3	9.1
70°-80°	239.2	4.0
80°-90°	47.5	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°	1819.9	30.6
0°-40°	3016.2	50.7
0°-60°	5118.0	86.0
0°-90°	5948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2266	2266	2266	2266	2266	
5°	2264	2261	2262	2261	2265	216
15°	2228	2226	2224	2223	2224	630
25°	2123	2118	2116	2113	2114	978
35°	1921	1920	1915	1914	1912	1200
45°	1562	1564	1566	1562	1554	1195
55°	1030	1008	994	1007	1024	924
65°	561	542	531	540	558	561
75°	230	225	215	219	221	245
85°	36	38	36	35	35	48
90°	0	0	0	0	0	



TEST NUMBER: P412450

CATALOG NUMBER: 22PD-70-PB1-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2265.6	2265.6	2265.6	2265.6	2265.6
2.5°	2267.7	2264.2	2264.9	2264.9	2269.1
5°	2264.2	2261.4	2262.1	2261.4	2264.9
7.5°	2259.3	2256.5	2257.2	2256.5	2258.6
10°	2253.0	2250.2	2250.2	2248.8	2251.6
12.5°	2244.6	2241.1	2239.7	2239.0	2241.1
15°	2227.8	2225.7	2224.3	2222.9	2224.3
17.5°	2209.5	2206.0	2204.6	2201.8	2204.6
20°	2187.1	2182.2	2180.8	2178.7	2179.4
22.5°	2157.7	2153.5	2151.4	2147.9	2149.3
25°	2122.7	2118.5	2116.4	2112.9	2114.3
27.5°	2082.0	2079.2	2074.3	2071.5	2072.2
30°	2035.1	2032.3	2026.7	2025.3	2025.3
32.5°	1983.3	1979.8	1974.9	1973.5	1972.8
35°	1920.9	1920.2	1915.3	1913.9	1911.8
37.5°	1853.0	1851.6	1846.0	1844.6	1842.5
40°	1769.6	1768.2	1767.5	1764.7	1761.9
42.5°	1672.9	1675.0	1676.4	1670.8	1665.2
45°	1561.5	1563.6	1566.4	1562.2	1554.5
47.5°	1431.2	1439.6	1435.4	1438.2	1430.5
50°	1299.5	1299.5	1292.5	1295.3	1291.1
52.5°	1161.5	1150.3	1141.9	1147.5	1153.1
55°	1030.5	1008.1	994.1	1007.4	1023.5
57.5°	905.1	878.5	852.6	873.6	893.2
60°	783.2	752.4	735.6	751.0	778.3
62.5°	667.6	645.2	628.4	640.3	663.4
65°	561.1	541.5	531.0	540.1	558.3
67.5°	463.8	450.5	439.9	447.7	461.7
70°	375.5	372.0	360.1	363.6	372.0
72.5°	294.9	294.2	283.7	286.5	291.4
75°	229.8	224.9	215.1	218.6	220.7
77.5°	162.5	164.6	155.5	157.6	157.6
80°	111.4	114.9	107.9	106.5	107.2
82.5°	70.8	70.8	70.1	69.4	67.3
85°	36.4	37.8	36.4	35.0	35.0
87.5°	14.0	14.0	14.0	13.3	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)