

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: P412468

Luminaire Tested: **22PD-80-PB1-L940**

Issue Date: 9/15/2020



**Test Information**

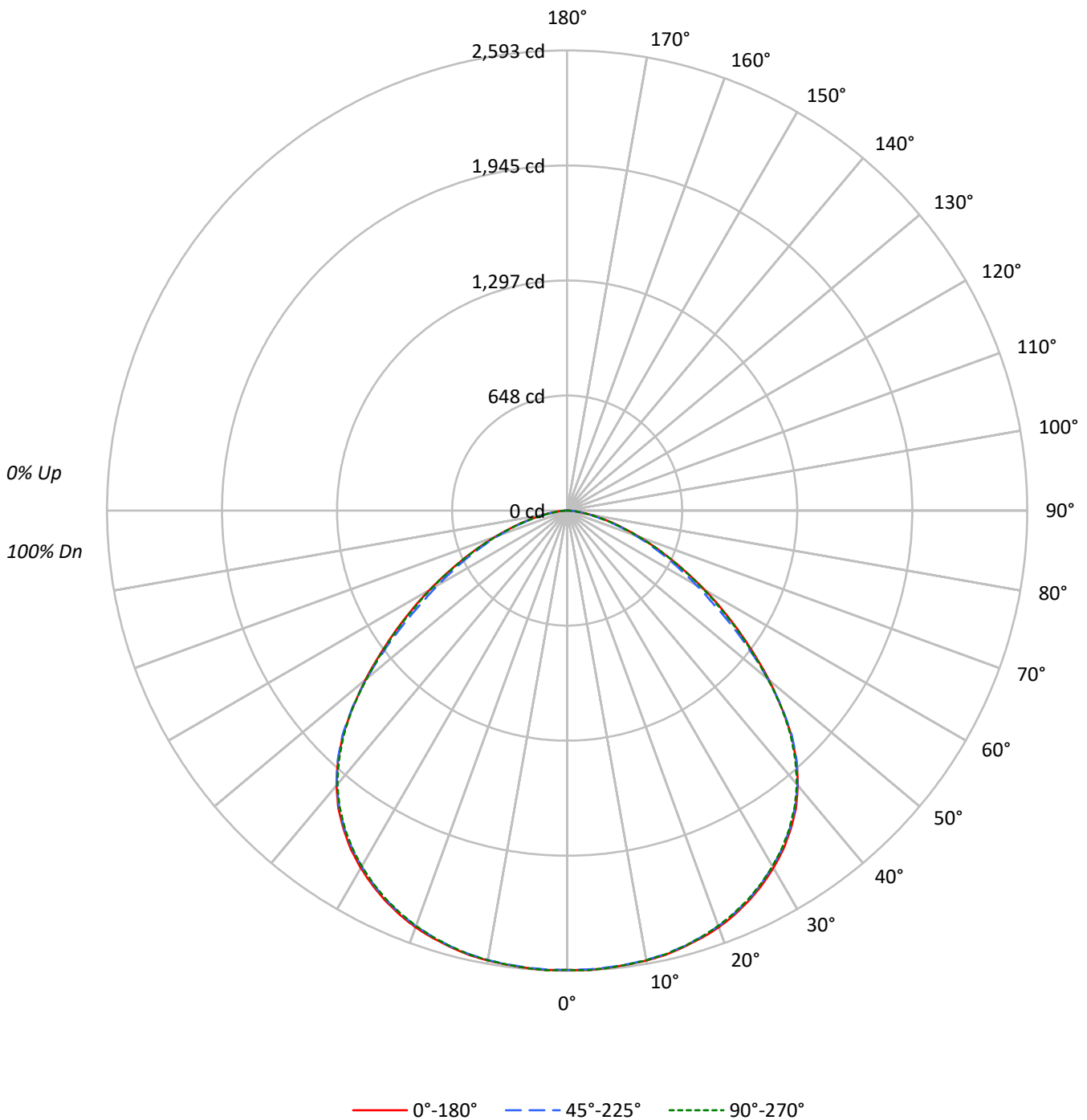
Test Method: LM-79-08  
Report Number: P412468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-80-PB1-L940  
Description: 8000 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: 6796.0 lumens  
Efficiency: N/A  
Efficacy: 93.6 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): 72.6  
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: P412468  
CATALOG NUMBER: 22PD-80-PB1-L940

### Luminous Intensity Polar Plot





TEST NUMBER: P412468

CATALOG NUMBER: 22PD-80-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°	6966	6966	6966
5°	6988	6982	6990
10°	7034	7025	7030
15°	7091	7080	7080
20°	7156	7135	7131
25°	7201	7180	7173
30°	7225	7195	7190
35°	7210	7189	7176
40°	7103	7094	7072
45°	6790	6811	6760
50°	6216	6183	6176
55°	5524	5329	5486
60°	4816	4524	4786
65°	4082	3863	4062
70°	3375	3237	3344
75°	2729	2555	2621
80°	1973	1911	1898
85°	1284	1284	1235



TEST NUMBER: P412468

CATALOG NUMBER: 22PD-80-PB1-L940

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.3	3.6
10°-20°	718.4	10.6
20°-30°	1114.7	16.4
30°-40°	1366.9	20.1
40°-50°	1366.4	20.1
50°-60°	1035.0	15.2
60°-70°	620.8	9.1
70°-80°	273.3	4.0
80°-90°	54.2	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°	2079.3	30.6
0°-40°	3446.2	50.7
0°-60°	5847.7	86.0
0°-90°	6796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6796.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2589	2589	2589	2589	2589	
5°	2587	2584	2585	2584	2588	247
15°	2545	2543	2541	2540	2541	720
25°	2425	2420	2418	2414	2416	1118
35°	2195	2194	2188	2187	2184	1371
45°	1784	1787	1790	1785	1776	1366
55°	1177	1152	1136	1151	1169	1056
65°	641	619	607	617	638	641
75°	262	257	246	250	252	280
85°	42	43	42	40	40	55
90°	0	0	0	0	0	



TEST NUMBER: P412468

CATALOG NUMBER: 22PD-80-PB1-L940

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2588.6	2588.6	2588.6	2588.6	2588.6
2.5°	2591.0	2587.0	2587.8	2587.8	2592.6
5°	2587.0	2583.8	2584.6	2583.8	2587.8
7.5°	2581.4	2578.2	2579.0	2578.2	2580.6
10°	2574.2	2571.0	2571.0	2569.4	2572.6
12.5°	2564.6	2560.6	2559.0	2558.2	2560.6
15°	2545.4	2543.0	2541.4	2539.8	2541.4
17.5°	2524.6	2520.6	2519.0	2515.8	2519.0
20°	2498.9	2493.3	2491.7	2489.3	2490.1
22.5°	2465.3	2460.5	2458.1	2454.1	2455.7
25°	2425.3	2420.5	2418.1	2414.1	2415.7
27.5°	2378.9	2375.7	2370.1	2366.9	2367.7
30°	2325.2	2322.0	2315.6	2314.0	2314.0
32.5°	2266.0	2262.0	2256.4	2254.8	2254.0
35°	2194.8	2194.0	2188.4	2186.8	2184.4
37.5°	2117.1	2115.5	2109.1	2107.5	2105.1
40°	2021.9	2020.3	2019.5	2016.3	2013.1
42.5°	1911.4	1913.8	1915.4	1909.0	1902.6
45°	1784.2	1786.6	1789.8	1785.0	1776.2
47.5°	1635.3	1644.9	1640.1	1643.3	1634.5
50°	1484.8	1484.8	1476.8	1480.0	1475.2
52.5°	1327.1	1314.3	1304.7	1311.1	1317.5
55°	1177.4	1151.8	1135.8	1151.0	1169.4
57.5°	1034.2	1003.7	974.1	998.1	1020.5
60°	894.9	859.7	840.5	858.1	889.3
62.5°	762.8	737.2	718.0	731.6	758.0
65°	641.1	618.7	606.7	617.1	637.9
67.5°	529.9	514.7	502.7	511.5	527.5
70°	429.0	425.0	411.4	415.4	425.0
72.5°	337.0	336.2	324.2	327.4	333.0
75°	262.5	256.9	245.7	249.7	252.1
77.5°	185.7	188.1	177.7	180.1	180.1
80°	127.3	131.3	123.3	121.7	122.5
82.5°	80.8	80.8	80.0	79.2	76.8
85°	41.6	43.2	41.6	40.0	40.0
87.5°	16.0	16.0	16.0	15.2	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)