

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: P412437

Luminaire Tested: **22PD-65-PB1-L850**

Issue Date: 9/15/2020



**Test Information**

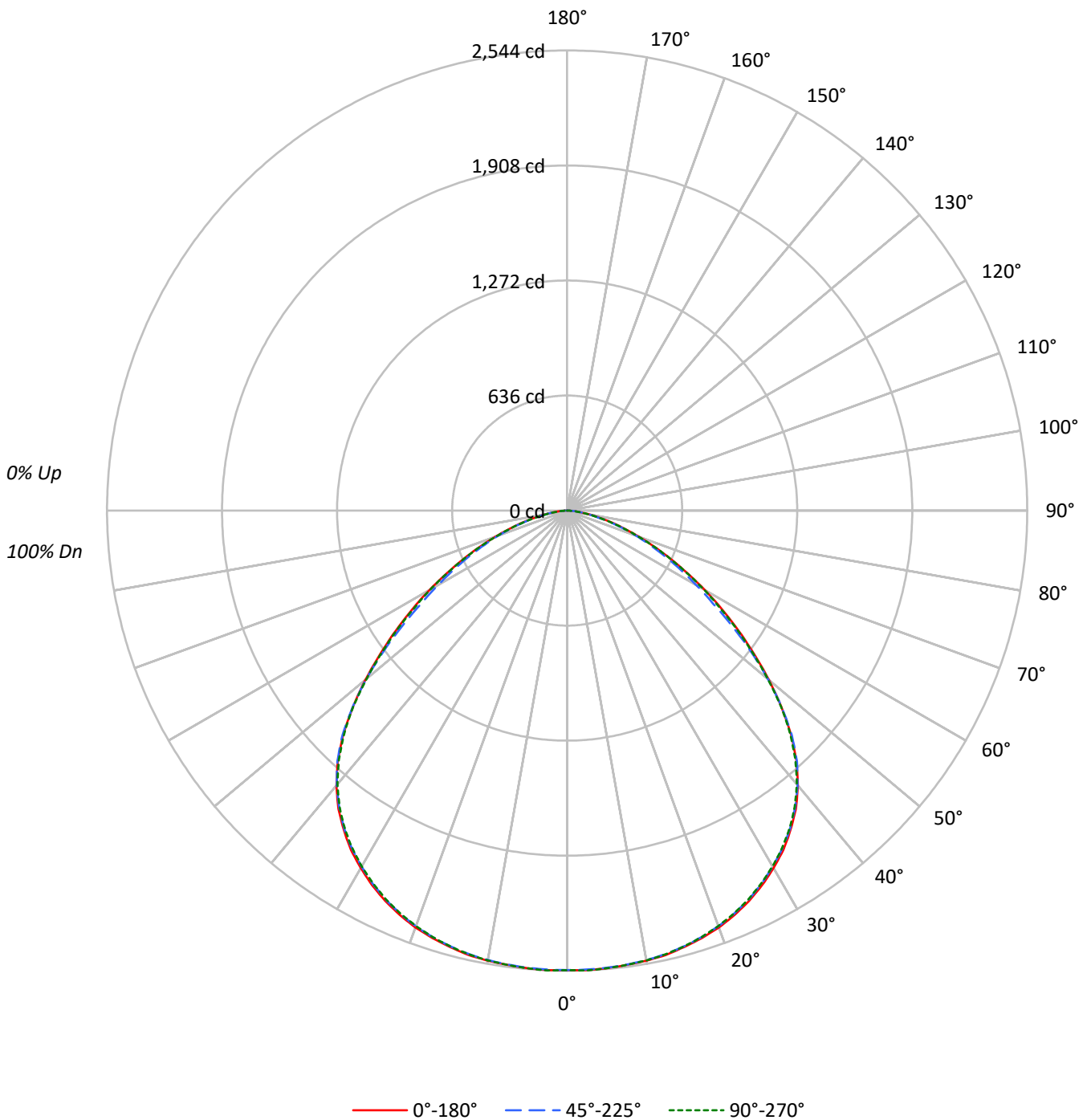
Test Method: LM-79-08  
Report Number: P412437  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-65-PB1-L850  
Description: 6500 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6670.0 lumens  
Efficiency: N/A  
Efficacy: 115.2 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): 57.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P412437  
CATALOG NUMBER: 22PD-65-PB1-L850

### Luminous Intensity Polar Plot





TEST NUMBER: P412437

CATALOG NUMBER: 22PD-65-PB1-L850

**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°	6837	6837	6837
5°	6858	6852	6861
10°	6904	6895	6899
15°	6960	6949	6949
20°	7023	7003	6999
25°	7068	7047	7040
30°	7091	7062	7057
35°	7076	7056	7043
40°	6971	6962	6941
45°	6664	6685	6634
50°	6101	6068	6061
55°	5422	5230	5385
60°	4727	4440	4697
65°	4007	3792	3987
70°	3313	3177	3282
75°	2679	2508	2573
80°	1936	1875	1863
85°	1263	1263	1213



TEST NUMBER: P412437

CATALOG NUMBER: 22PD-65-PB1-L850

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.7	3.6
10°-20°	705.0	10.6
20°-30°	1094.0	16.4
30°-40°	1341.6	20.1
40°-50°	1341.1	20.1
50°-60°	1015.8	15.2
60°-70°	609.3	9.1
70°-80°	268.3	4.0
80°-90°	53.2	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°	2040.8	30.6
0°-40°	3382.3	50.7
0°-60°	5739.3	86.0
0°-90°	6670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6670.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2541	2541	2541	2541	2541	
5°	2539	2536	2537	2536	2540	242
15°	2498	2496	2494	2493	2494	706
25°	2380	2376	2373	2369	2371	1097
35°	2154	2153	2148	2146	2144	1345
45°	1751	1753	1757	1752	1743	1341
55°	1156	1130	1115	1130	1148	1036
65°	629	607	596	606	626	629
75°	258	252	241	245	248	275
85°	41	42	41	39	39	54
90°	0	0	0	0	0	



TEST NUMBER: P412437

CATALOG NUMBER: 22PD-65-PB1-L850

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2540.6	2540.6	2540.6	2540.6	2540.6
2.5°	2543.0	2539.0	2539.8	2539.8	2544.5
5°	2539.0	2535.9	2536.7	2535.9	2539.8
7.5°	2533.5	2530.4	2531.2	2530.4	2532.7
10°	2526.5	2523.3	2523.3	2521.7	2524.9
12.5°	2517.0	2513.1	2511.5	2510.7	2513.1
15°	2498.2	2495.8	2494.2	2492.7	2494.2
17.5°	2477.7	2473.8	2472.2	2469.1	2472.2
20°	2452.6	2447.1	2445.5	2443.2	2444.0
22.5°	2419.6	2414.9	2412.5	2408.6	2410.2
25°	2380.3	2375.6	2373.3	2369.3	2370.9
27.5°	2334.8	2331.6	2326.1	2323.0	2323.8
30°	2282.1	2279.0	2272.7	2271.1	2271.1
32.5°	2224.0	2220.1	2214.6	2213.0	2212.2
35°	2154.1	2153.3	2147.8	2146.2	2143.9
37.5°	2077.9	2076.3	2070.0	2068.5	2066.1
40°	1984.4	1982.8	1982.0	1978.9	1975.8
42.5°	1876.0	1878.3	1879.9	1873.6	1867.3
45°	1751.1	1753.4	1756.6	1751.9	1743.2
47.5°	1605.0	1614.4	1609.7	1612.8	1604.2
50°	1457.3	1457.3	1449.4	1452.6	1447.8
52.5°	1302.5	1289.9	1280.5	1286.8	1293.1
55°	1155.6	1130.5	1114.8	1129.7	1147.7
57.5°	1015.0	985.1	956.1	979.6	1001.6
60°	878.3	843.7	824.9	842.2	872.8
62.5°	748.7	723.5	704.7	718.0	744.0
65°	629.3	607.3	595.5	605.7	626.1
67.5°	520.1	505.1	493.4	502.0	517.7
70°	421.1	417.1	403.8	407.7	417.1
72.5°	330.7	329.9	318.2	321.3	326.8
75°	257.7	252.2	241.2	245.1	247.5
77.5°	182.3	184.6	174.4	176.8	176.8
80°	124.9	128.8	121.0	119.4	120.2
82.5°	79.3	79.3	78.6	77.8	75.4
85°	40.9	42.4	40.9	39.3	39.3
87.5°	15.7	15.7	15.7	14.9	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)