

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: P412819

Luminaire Tested: **22PD-85-PP3-L940**

Issue Date: 9/15/2020



**Test Information**

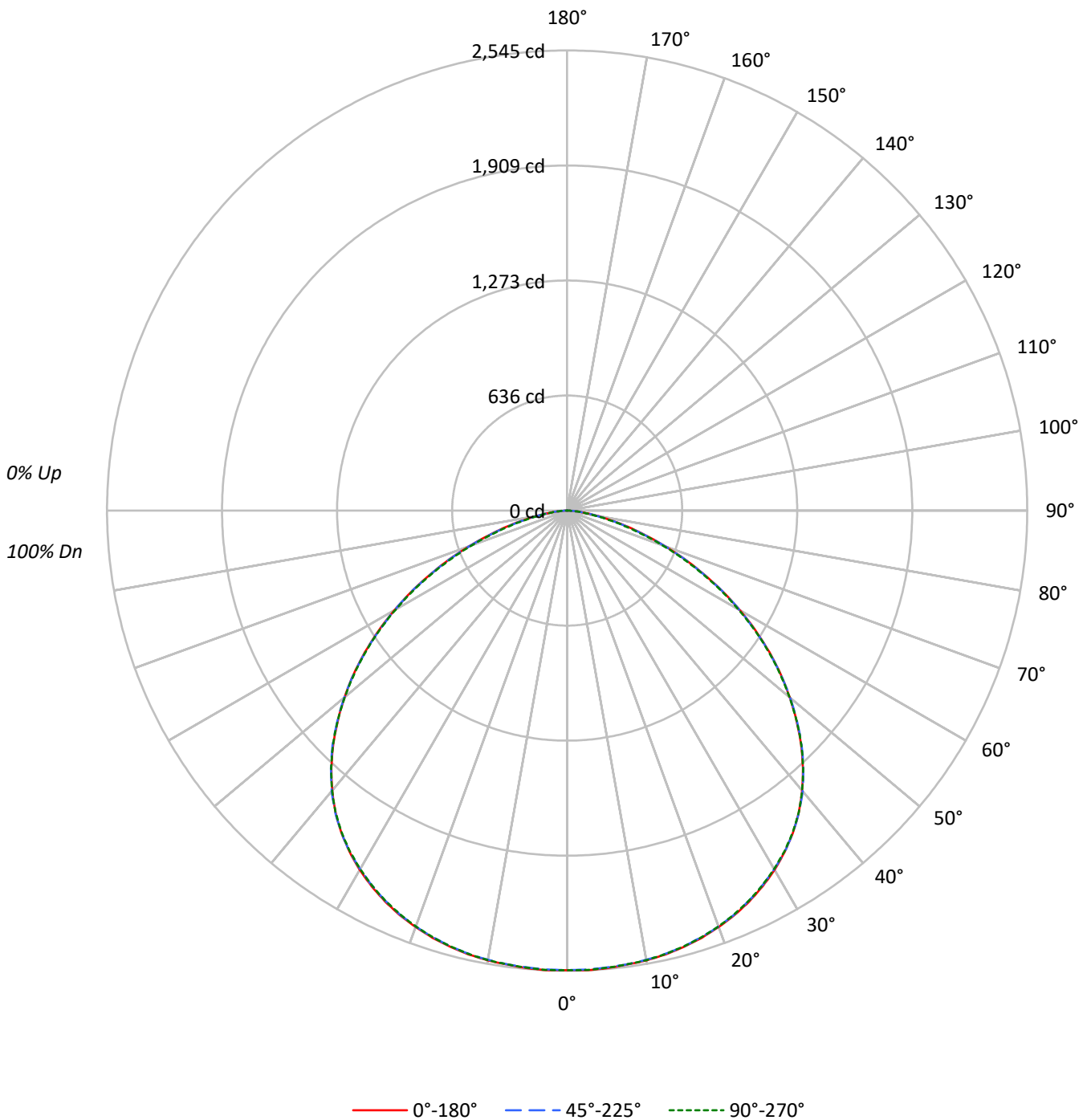
Test Method: LM-79-08  
Report Number: P412819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-85-PP3-L940  
Description: 8500 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: 7292.0 lumens  
Efficiency: N/A  
Efficacy: 94.3 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): 77.3  
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

TEST NUMBER: P412819  
CATALOG NUMBER: 22PD-85-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°	6839	6839	6839
5°	6861	6852	6856
10°	6903	6894	6898
15°	6958	6951	6951
20°	7018	7011	7009
25°	7080	7068	7068
30°	7130	7117	7114
35°	7151	7151	7142
40°	7104	7119	7104
45°	6963	6982	6972
50°	6729	6739	6722
55°	6406	6390	6378
60°	5947	5933	5887
65°	5312	5306	5247
70°	4541	4514	4413
75°	3617	3511	3406
80°	2577	2524	2393
85°	1677	1677	1624



TEST NUMBER: P412819

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.7	3.3
10°-20°	705.0	9.7
20°-30°	1097.8	15.1
30°-40°	1358.7	18.6
40°-50°	1408.9	19.3
50°-60°	1214.4	16.7
60°-70°	825.6	11.3
70°-80°	369.4	5.1
80°-90°	70.3	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°	2044.5	28.0
0°-40°	3403.3	46.7
0°-60°	6026.6	82.6
0°-90°	7292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7292.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2542	2542	2542	2542	2542	
5°	2540	2535	2536	2536	2538	242
15°	2498	2493	2495	2493	2495	706
25°	2385	2381	2380	2380	2380	1100
35°	2177	2174	2177	2173	2174	1360
45°	1830	1828	1835	1830	1832	1408
55°	1365	1360	1362	1360	1360	1217
65°	834	841	833	831	824	828
75°	348	349	338	336	328	374
85°	54	56	54	53	53	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2541.6	2541.6	2541.6	2541.6	2541.6
2.5°	2545.0	2539.9	2539.9	2540.7	2543.3
5°	2539.9	2534.8	2536.5	2535.6	2538.2
7.5°	2533.1	2528.9	2531.4	2529.7	2531.4
10°	2526.3	2522.1	2522.9	2522.1	2524.6
12.5°	2514.4	2509.3	2511.0	2511.0	2511.9
15°	2497.5	2493.2	2494.9	2493.2	2494.9
17.5°	2477.1	2472.0	2472.8	2472.0	2473.7
20°	2450.8	2447.4	2448.2	2446.5	2447.4
22.5°	2421.1	2416.8	2417.7	2416.0	2416.0
25°	2384.6	2381.2	2380.4	2379.5	2380.4
27.5°	2342.2	2337.9	2337.9	2337.1	2337.1
30°	2294.6	2290.4	2290.4	2289.6	2289.6
32.5°	2238.6	2236.9	2237.8	2236.1	2235.2
35°	2176.7	2174.1	2176.7	2173.3	2174.1
37.5°	2104.6	2101.2	2106.3	2102.9	2103.7
40°	2022.2	2020.5	2026.5	2023.9	2022.2
42.5°	1930.6	1930.6	1933.1	1934.0	1932.3
45°	1829.6	1827.9	1834.7	1830.5	1832.1
47.5°	1721.0	1718.4	1723.5	1722.7	1721.8
50°	1607.3	1605.6	1609.8	1605.6	1605.6
52.5°	1489.3	1488.5	1489.3	1485.1	1484.2
55°	1365.4	1360.3	1362.0	1359.5	1359.5
57.5°	1236.4	1230.5	1231.3	1230.5	1231.3
60°	1104.9	1103.2	1102.3	1098.1	1093.9
62.5°	970.0	971.7	970.8	964.9	960.6
65°	834.2	841.0	833.3	830.8	824.0
67.5°	706.0	708.6	703.5	697.6	689.9
70°	577.1	582.1	573.7	567.7	560.9
72.5°	454.0	457.4	449.8	446.4	437.9
75°	347.9	348.8	337.7	336.0	327.6
77.5°	247.8	251.2	242.7	242.7	234.2
80°	166.3	172.3	162.9	160.4	154.4
82.5°	104.4	105.2	102.7	100.1	97.6
85°	54.3	56.0	54.3	52.6	52.6
87.5°	20.4	21.2	20.4	19.5	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)