

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: P412818

Luminaire Tested: **22PD-85-PP3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412818
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-L935
Description: 8500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

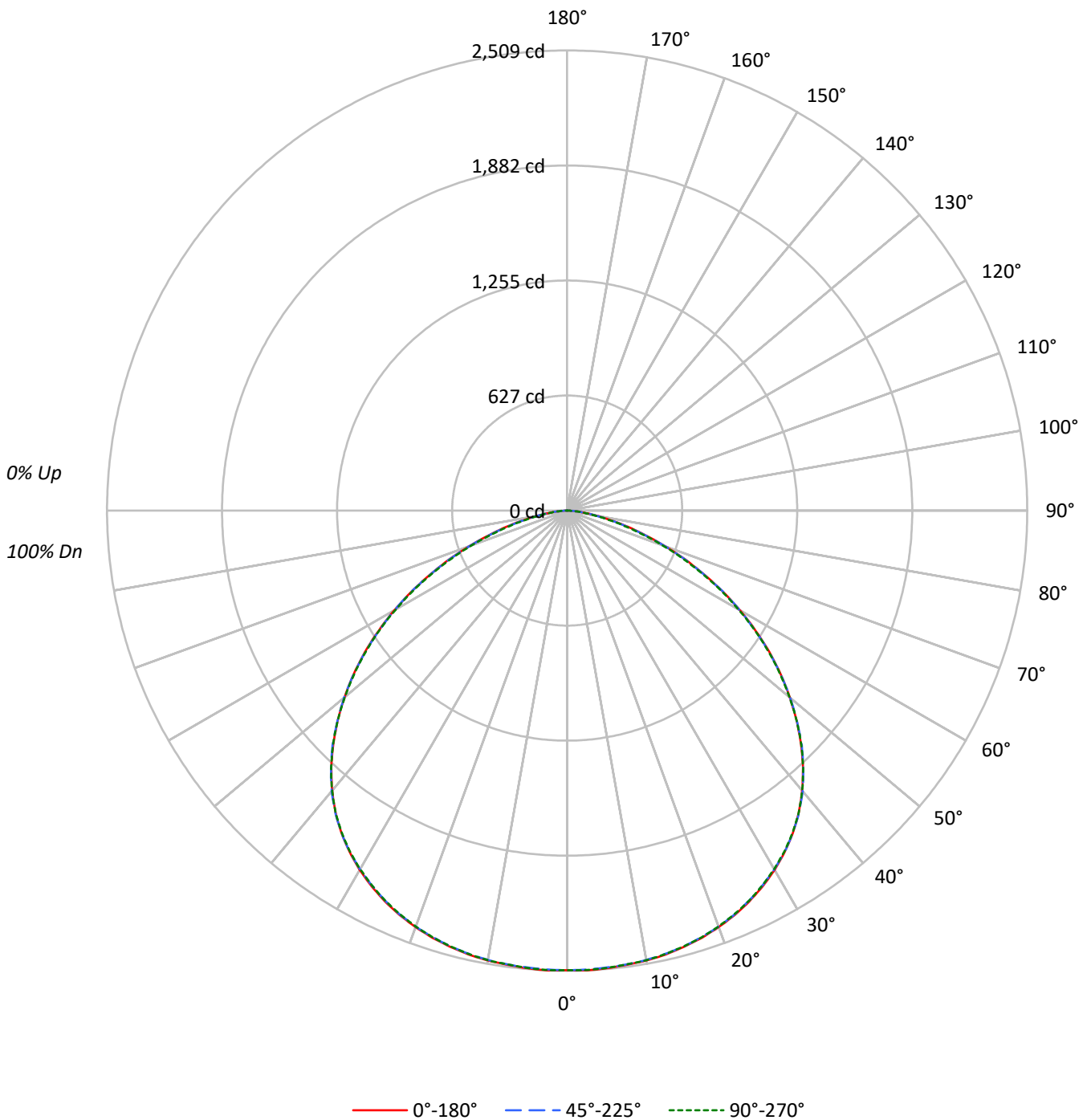
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7190.0 lumens
Efficiency: N/A
Efficacy: 93.0 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: P412818
CATALOG NUMBER: 22PD-85-PP3-L935

Luminous Intensity Polar Plot





TEST NUMBER: P412818

CATALOG NUMBER: 22PD-85-PP3-L935

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°	6744	6744	6744
5°	6765	6756	6760
10°	6807	6797	6802
15°	6860	6853	6853
20°	6920	6913	6911
25°	6981	6969	6969
30°	7030	7017	7015
35°	7050	7050	7042
40°	7005	7019	7005
45°	6865	6884	6875
50°	6635	6645	6628
55°	6316	6301	6289
60°	5863	5850	5805
65°	5237	5232	5174
70°	4477	4450	4352
75°	3567	3462	3358
80°	2541	2490	2360
85°	1655	1655	1602



TEST NUMBER: P412818

CATALOG NUMBER: 22PD-85-PP3-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.3	3.3
10°-20°	695.2	9.7
20°-30°	1082.5	15.1
30°-40°	1339.7	18.6
40°-50°	1389.2	19.3
50°-60°	1197.4	16.7
60°-70°	814.1	11.3
70°-80°	364.3	5.1
80°-90°	69.4	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°	2015.9	28.0
0°-40°	3355.7	46.7
0°-60°	5942.3	82.6
0°-90°	7190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2506	2506	2506	2506	2506	
5°	2504	2499	2501	2500	2503	239
15°	2462	2458	2460	2458	2460	696
25°	2351	2348	2347	2346	2347	1084
35°	2146	2144	2146	2143	2144	1341
45°	1804	1802	1809	1805	1806	1388
55°	1346	1341	1343	1340	1340	1200
65°	822	829	822	819	812	817
75°	343	344	333	331	323	369
85°	54	55	54	52	52	70
90°	0	0	0	0	0	



TEST NUMBER: P412818

CATALOG NUMBER: 22PD-85-PP3-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2506.0	2506.0	2506.0	2506.0	2506.0
2.5°	2509.4	2504.4	2504.4	2505.2	2507.7
5°	2504.4	2499.3	2501.0	2500.2	2502.7
7.5°	2497.7	2493.5	2496.0	2494.3	2496.0
10°	2491.0	2486.8	2487.6	2486.8	2489.3
12.5°	2479.3	2474.2	2475.9	2475.9	2476.7
15°	2462.5	2458.3	2460.0	2458.3	2460.0
17.5°	2442.4	2437.4	2438.3	2437.4	2439.1
20°	2416.5	2413.2	2414.0	2412.3	2413.2
22.5°	2387.2	2383.0	2383.9	2382.2	2382.2
25°	2351.2	2347.9	2347.1	2346.2	2347.1
27.5°	2309.4	2305.2	2305.2	2304.4	2304.4
30°	2262.5	2258.4	2258.4	2257.5	2257.5
32.5°	2207.3	2205.6	2206.5	2204.8	2204.0
35°	2146.2	2143.7	2146.2	2142.9	2143.7
37.5°	2075.1	2071.8	2076.8	2073.4	2074.3
40°	1994.0	1992.3	1998.1	1995.6	1994.0
42.5°	1903.6	1903.6	1906.1	1906.9	1905.3
45°	1804.0	1802.3	1809.0	1804.8	1806.5
47.5°	1696.9	1694.4	1699.4	1698.6	1697.7
50°	1584.8	1583.1	1587.3	1583.1	1583.1
52.5°	1468.5	1467.6	1468.5	1464.3	1463.5
55°	1346.3	1341.3	1343.0	1340.5	1340.5
57.5°	1219.1	1213.3	1214.1	1213.3	1214.1
60°	1089.4	1087.8	1086.9	1082.7	1078.6
62.5°	956.4	958.1	957.2	951.4	947.2
65°	822.5	829.2	821.7	819.2	812.5
67.5°	696.2	698.7	693.7	687.8	680.3
70°	569.0	574.0	565.6	559.8	553.1
72.5°	447.7	451.0	443.5	440.1	431.8
75°	343.1	343.9	333.0	331.3	323.0
77.5°	244.3	247.7	239.3	239.3	230.9
80°	164.0	169.9	160.7	158.1	152.3
82.5°	102.9	103.8	101.2	98.7	96.2
85°	53.6	55.2	53.6	51.9	51.9
87.5°	20.1	20.9	20.1	19.2	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)