

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: P413049

Luminaire Tested: **22PD-25-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-25-PC3-L850
Description: 2500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

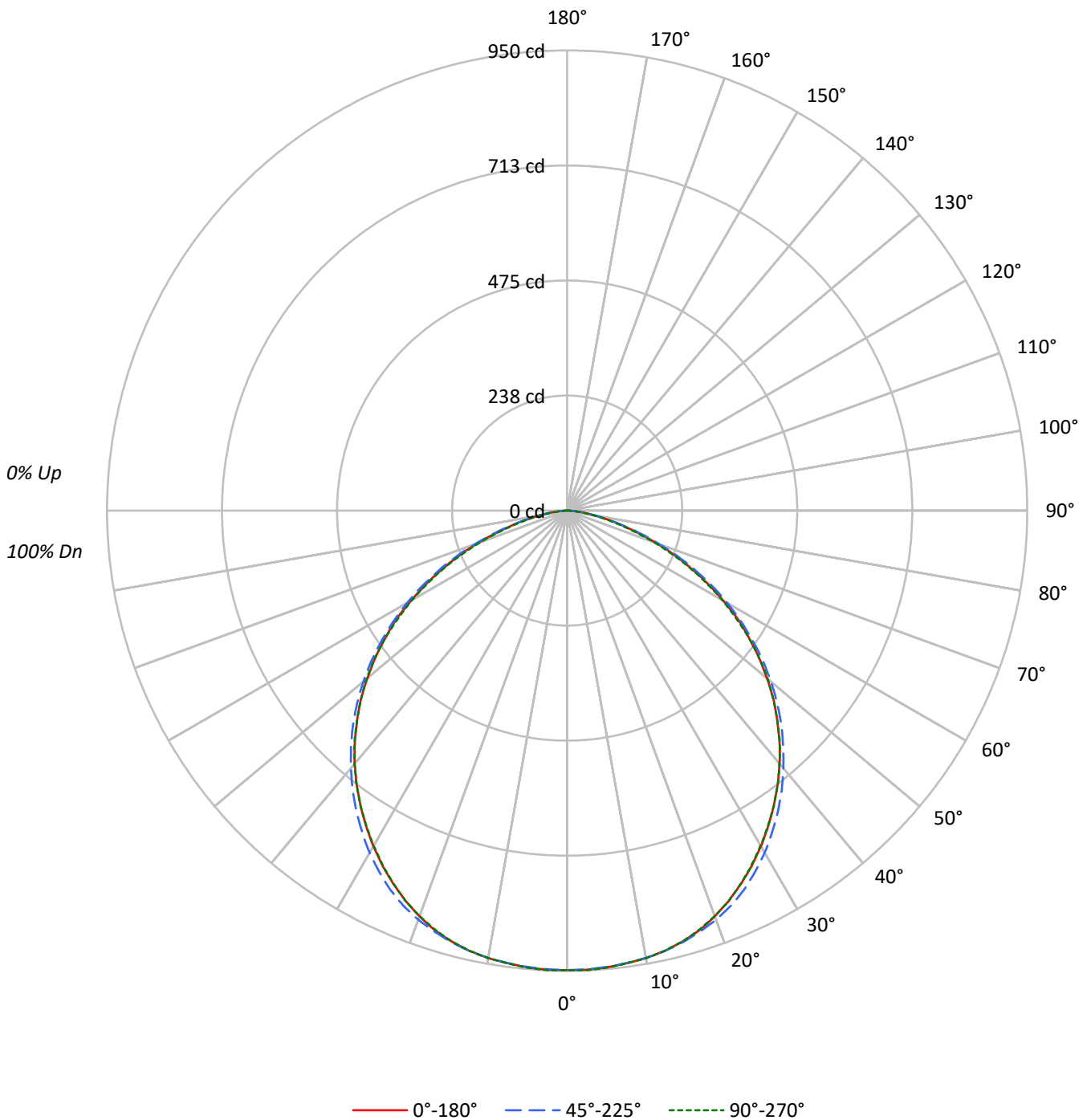
Lumens per Lamp: N/A
Luminaire Lumens: 2549.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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: P413049

CATALOG NUMBER: 22PD-25-PC3-L850

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	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2553	2553	2553
5°	2556	2555	2558
10°	2563	2562	2563
15°	2566	2569	2565
20°	2553	2574	2551
25°	2523	2564	2521
30°	2486	2535	2482
35°	2443	2491	2443
40°	2397	2439	2397
45°	2334	2380	2337
50°	2254	2298	2263
55°	2149	2192	2149
60°	2004	2055	1991
65°	1799	1862	1776
70°	1539	1593	1493
75°	1221	1255	1158
80°	874	907	832
85°	577	596	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	3.5
10°-20°	260.0	10.2
20°-30°	394.5	15.5
30°-40°	471.1	18.5
40°-50°	479.1	18.8
50°-60°	414.5	16.3
60°-70°	285.2	11.2
70°-80°	129.4	5.1
80°-90°	25.0	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°	744.6	29.2
0°-40°	1215.7	47.7
0°-60°	2109.3	82.8
0°-90°	2549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	946	946	946	946	947	90
15°	921	922	922	921	921	260
25°	850	857	864	856	849	391
35°	744	757	758	756	744	465
45°	613	624	625	625	614	473
55°	458	466	467	466	458	409
65°	282	290	292	290	279	280
75°	117	122	121	120	111	126
85°	19	20	19	19	18	24
90°	0	0	0	0	0	



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CATALOG NUMBER: 22PD-25-PC3-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.8	948.8	948.8	948.8	948.8
2.5°	948.8	947.6	947.9	948.2	950.0
5°	946.4	945.5	945.8	945.8	947.0
7.5°	942.5	942.2	942.2	941.9	942.8
10°	938.0	937.4	937.7	937.4	938.0
12.5°	931.0	931.0	931.3	930.4	931.0
15°	921.1	921.7	922.3	920.8	920.8
17.5°	908.4	909.9	911.4	908.7	907.2
20°	891.5	895.1	898.7	894.5	890.9
22.5°	871.9	877.9	883.3	876.7	871.9
25°	849.8	857.4	863.7	855.9	849.2
27.5°	826.0	834.5	840.5	833.9	824.8
30°	800.1	810.3	815.7	809.4	798.8
32.5°	772.3	784.4	787.7	783.8	771.7
35°	743.6	756.9	758.4	755.7	743.6
37.5°	713.7	726.4	727.6	726.1	713.7
40°	682.4	694.1	694.4	694.4	682.4
42.5°	648.9	660.3	660.3	660.0	649.8
45°	613.2	624.4	625.3	624.7	614.1
47.5°	577.9	586.4	587.9	586.7	577.3
50°	538.4	547.1	549.0	547.8	540.5
52.5°	499.2	507.3	509.1	508.2	500.1
55°	458.1	466.0	467.2	466.3	458.1
57.5°	418.6	423.7	424.9	423.1	412.9
60°	372.4	379.7	381.8	379.7	370.0
62.5°	327.7	335.6	337.4	334.4	324.1
65°	282.5	290.3	292.4	290.0	278.9
67.5°	239.6	245.4	247.2	244.5	234.2
70°	195.6	202.8	202.5	198.9	189.8
72.5°	152.1	162.1	160.3	158.1	148.2
75°	117.4	121.9	120.7	119.5	111.4
77.5°	83.9	89.3	86.3	86.6	79.7
80°	56.4	61.6	58.5	57.3	53.7
82.5°	35.9	38.0	37.4	36.8	33.5
85°	18.7	19.9	19.3	18.7	17.5
87.5°	7.2	7.8	7.2	7.2	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)