

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: P413047

Luminaire Tested: **22PD-25-PC3-L835**

Issue Date: 9/15/2020



**Test Information**

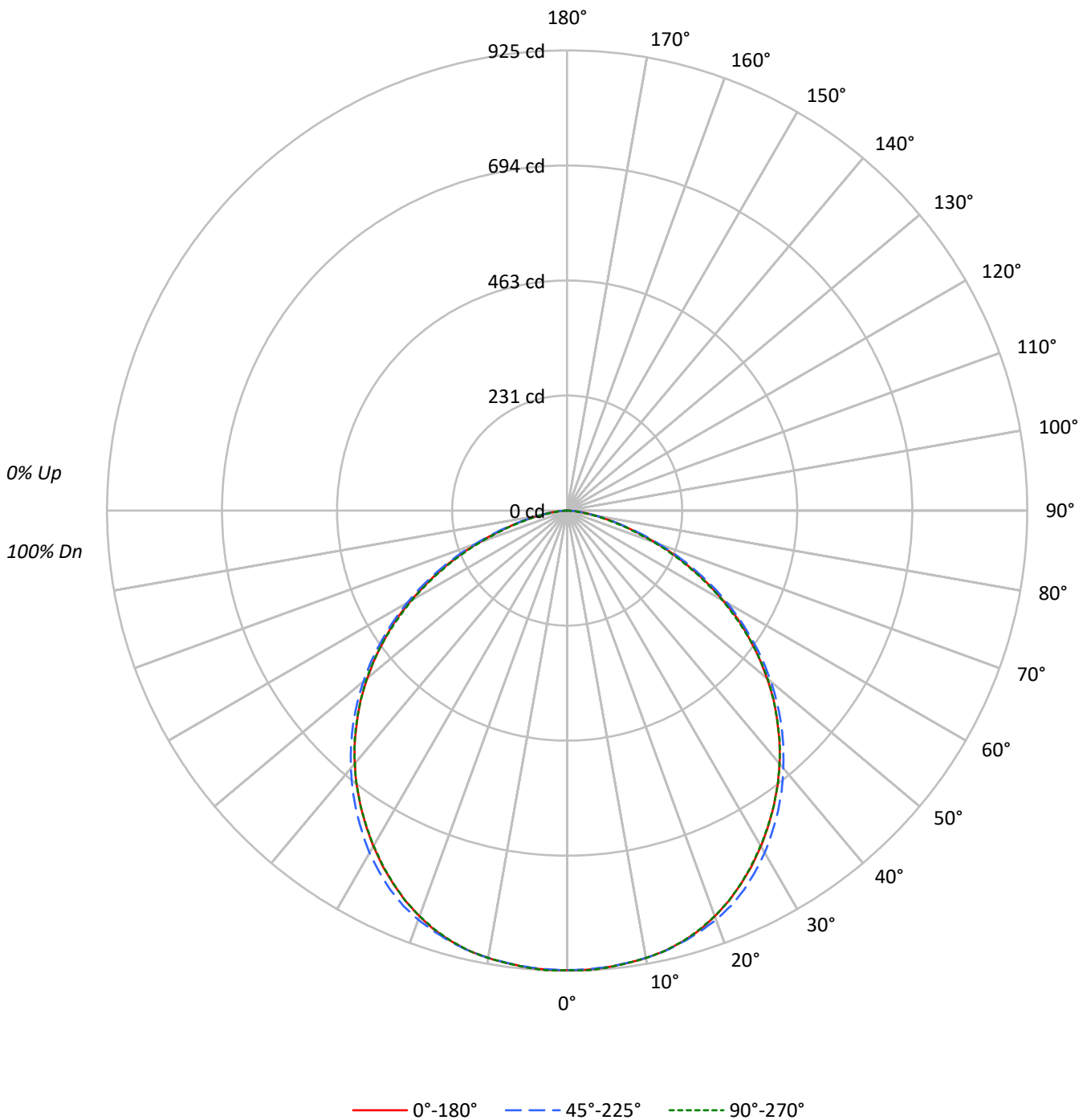
Test Method: LM-79-08  
Report Number: P413047  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22PD-25-PC3-L835  
Description: 2500 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2482.0 lumens  
Efficiency: N/A  
Efficacy: 121.7 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

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### 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°	2486	2486	2486
5°	2489	2488	2491
10°	2496	2495	2496
15°	2499	2502	2498
20°	2486	2506	2484
25°	2457	2497	2455
30°	2421	2468	2417
35°	2379	2426	2379
40°	2334	2375	2334
45°	2272	2317	2276
50°	2195	2238	2203
55°	2093	2134	2093
60°	1951	2000	1939
65°	1752	1813	1729
70°	1498	1552	1454
75°	1188	1222	1127
80°	852	883	810
85°	562	580	525



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.7	3.5
10°-20°	253.2	10.2
20°-30°	384.1	15.5
30°-40°	458.8	18.5
40°-50°	466.6	18.8
50°-60°	403.6	16.3
60°-70°	277.7	11.2
70°-80°	126.0	5.1
80°-90°	24.4	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°	725.0	29.2
0°-40°	1183.8	47.7
0°-60°	2053.9	82.8
0°-90°	2482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2482.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	922	921	921	921	922	88
15°	897	897	898	897	897	253
25°	828	835	841	833	827	381
35°	724	737	738	736	724	453
45°	597	608	609	608	598	460
55°	446	454	455	454	446	399
65°	275	283	285	282	272	273
75°	114	119	118	116	108	123
85°	18	19	19	18	17	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	923.9	923.9	923.9	923.9	923.9
2.5°	923.9	922.7	923.0	923.3	925.1
5°	921.5	920.7	921.0	921.0	922.1
7.5°	917.7	917.4	917.4	917.1	918.0
10°	913.3	912.7	913.0	912.7	913.3
12.5°	906.6	906.6	906.9	906.0	906.6
15°	896.9	897.4	898.0	896.6	896.6
17.5°	884.5	886.0	887.5	884.8	883.3
20°	868.1	871.6	875.1	871.0	867.5
22.5°	849.0	854.8	860.1	853.7	849.0
25°	827.5	834.9	841.0	833.4	826.9
27.5°	804.3	812.5	818.4	811.9	803.1
30°	779.0	789.0	794.3	788.1	777.8
32.5°	752.0	763.7	767.0	763.2	751.4
35°	724.1	737.0	738.5	735.8	724.1
37.5°	695.0	707.3	708.5	707.0	695.0
40°	664.4	675.9	676.2	676.2	664.4
42.5°	631.8	643.0	643.0	642.7	632.7
45°	597.1	608.0	608.9	608.3	598.0
47.5°	562.7	571.0	572.4	571.3	562.2
50°	524.2	532.8	534.5	533.4	526.3
52.5°	486.0	494.0	495.7	494.9	486.9
55°	446.1	453.7	454.9	454.0	446.1
57.5°	407.6	412.6	413.8	412.0	402.0
60°	362.6	369.7	371.7	369.7	360.3
62.5°	319.1	326.8	328.5	325.6	315.6
65°	275.1	282.7	284.8	282.4	271.5
67.5°	233.3	238.9	240.7	238.0	228.0
70°	190.4	197.5	197.2	193.7	184.8
72.5°	148.1	157.8	156.0	154.0	144.3
75°	114.3	118.7	117.5	116.4	108.4
77.5°	81.7	87.0	84.0	84.3	77.6
80°	55.0	59.9	57.0	55.8	52.3
82.5°	35.0	37.0	36.4	35.9	32.6
85°	18.2	19.4	18.8	18.2	17.0
87.5°	7.1	7.6	7.1	7.1	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)