

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: P412822

Luminaire Tested: **24PD-100-PP3-L835**

Issue Date: 9/15/2020



**Test Information**

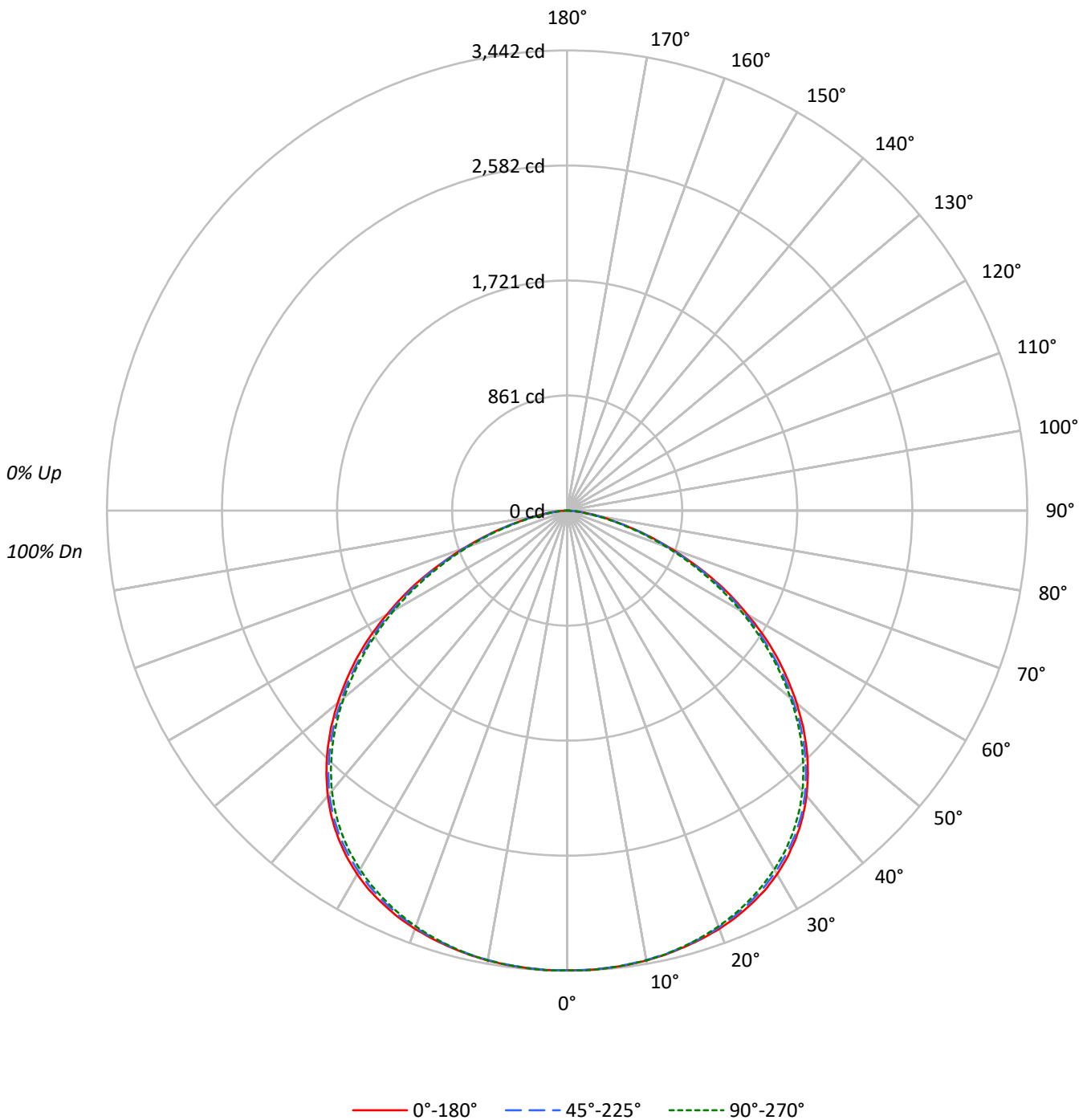
Test Method: LM-79-08  
Report Number: P412822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-100-PP3-L835  
Description: 10000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10007.0 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 77.4  
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	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	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
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°	4627	4627	4627
5°	4640	4638	4641
10°	4669	4663	4667
15°	4710	4703	4700
20°	4767	4751	4740
25°	4827	4801	4779
30°	4880	4846	4815
35°	4906	4877	4833
40°	4894	4864	4809
45°	4824	4776	4723
50°	4691	4616	4568
55°	4497	4389	4333
60°	4190	4117	4034
65°	3798	3722	3613
70°	3242	3183	3080
75°	2532	2506	2386
80°	1867	1790	1689
85°	1127	1127	1050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.2	3.3
10°-20°	954.8	9.5
20°-30°	1492.3	14.9
30°-40°	1854.7	18.5
40°-50°	1932.5	19.3
50°-60°	1676.9	16.8
60°-70°	1153.0	11.5
70°-80°	520.3	5.2
80°-90°	95.3	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°	2774.3	27.7
0°-40°	4629.0	46.3
0°-60°	8238.3	82.3
0°-90°	10007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10007.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3439	3439	3439	3439	3439	
5°	3435	3436	3434	3431	3436	327
15°	3381	3381	3376	3373	3374	956
25°	3251	3250	3234	3221	3219	1500
35°	2987	2987	2969	2952	2942	1867
45°	2535	2536	2510	2491	2482	1951
55°	1917	1906	1871	1849	1847	1709
65°	1193	1188	1169	1141	1135	1177
75°	487	489	482	469	459	530
85°	73	72	73	72	68	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3439.1	3439.1	3439.1	3439.1	3439.1
2.5°	3440.1	3440.1	3438.1	3435.1	3442.1
5°	3435.1	3436.1	3434.1	3431.1	3436.1
7.5°	3428.1	3429.1	3426.1	3423.1	3427.1
10°	3417.1	3416.1	3413.1	3411.1	3416.1
12.5°	3401.1	3400.1	3397.1	3395.1	3399.1
15°	3381.1	3381.1	3376.1	3373.1	3374.1
17.5°	3357.1	3357.1	3350.1	3343.1	3345.1
20°	3329.1	3328.1	3318.1	3311.1	3310.1
22.5°	3294.1	3294.1	3280.1	3271.1	3268.1
25°	3251.1	3250.1	3234.1	3221.1	3219.1
27.5°	3202.1	3200.1	3181.1	3168.1	3163.1
30°	3141.1	3139.1	3119.1	3105.1	3099.1
32.5°	3069.1	3072.1	3049.1	3033.1	3027.1
35°	2987.1	2987.1	2969.1	2952.1	2942.1
37.5°	2893.1	2893.1	2876.1	2859.1	2847.1
40°	2786.1	2787.1	2769.1	2748.1	2738.1
42.5°	2666.1	2668.1	2644.1	2627.1	2616.1
45°	2535.1	2536.1	2510.1	2491.1	2482.1
47.5°	2393.1	2391.1	2362.1	2346.1	2337.1
50°	2241.1	2237.1	2205.1	2190.1	2182.1
52.5°	2082.1	2074.1	2046.1	2024.1	2017.1
55°	1917.1	1906.1	1871.1	1849.1	1847.1
57.5°	1745.1	1732.1	1703.1	1682.1	1674.1
60°	1557.1	1554.1	1530.1	1505.1	1499.0
62.5°	1381.0	1372.0	1351.0	1321.0	1318.0
65°	1193.0	1188.0	1169.0	1141.0	1135.0
67.5°	999.0	1004.0	988.0	963.0	955.0
70°	824.0	827.0	809.0	786.0	783.0
72.5°	648.0	653.0	638.0	623.0	620.0
75°	487.0	489.0	482.0	469.0	459.0
77.5°	346.0	353.0	345.0	336.0	328.0
80°	241.0	230.0	231.0	227.0	218.0
82.5°	145.0	140.0	139.0	135.0	131.0
85°	73.0	72.0	73.0	72.0	68.0
87.5°	24.0	26.0	27.0	27.0	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)