

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: P413281

Luminaire Tested: **24PD-90-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-90-PC3-L835
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

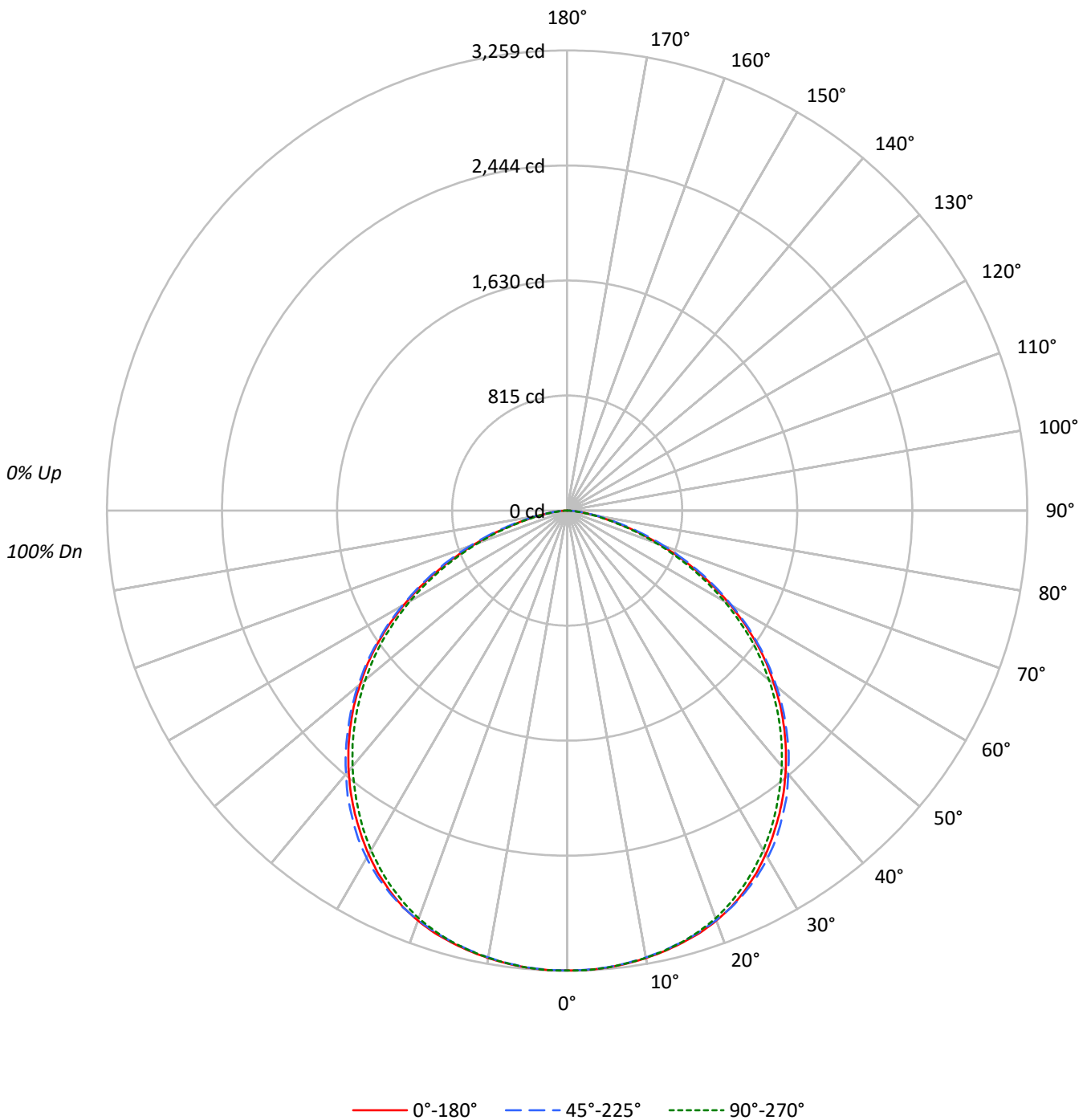
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8902.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.7
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	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4382	4382	4382
5°	4388	4385	4389
10°	4397	4390	4394
15°	4411	4402	4403
20°	4426	4419	4400
25°	4413	4429	4368
30°	4369	4415	4314
35°	4305	4360	4240
40°	4229	4280	4153
45°	4134	4178	4048
50°	4005	4051	3907
55°	3841	3875	3727
60°	3586	3627	3462
65°	3231	3312	3105
70°	2744	2864	2633
75°	2125	2280	2026
80°	1580	1650	1433
85°	976	1045	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.0	3.5
10°-20°	893.1	10.0
20°-30°	1367.8	15.4
30°-40°	1645.5	18.5
40°-50°	1677.9	18.8
50°-60°	1454.6	16.3
60°-70°	1008.5	11.3
70°-80°	460.6	5.2
80°-90°	85.1	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°	2569.9	28.9
0°-40°	4215.3	47.4
0°-60°	7347.8	82.5
0°-90°	8902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3257	3257	3257	3257	3257	
5°	3249	3249	3247	3245	3250	309
15°	3167	3166	3160	3158	3161	895
25°	2973	2981	2984	2957	2942	1369
35°	2621	2649	2654	2620	2581	1639
45°	2172	2200	2196	2166	2127	1674
55°	1637	1647	1652	1611	1589	1459
65°	1015	1037	1040	1005	975	1003
75°	409	431	438	424	390	447
85°	63	65	68	64	59	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3256.8	3256.8	3256.8	3256.8	3256.8
2.5°	3256.8	3256.8	3255.0	3253.2	3258.6
5°	3248.7	3248.7	3246.9	3245.1	3249.6
7.5°	3236.1	3235.2	3233.3	3231.5	3234.3
10°	3218.0	3217.1	3213.5	3212.6	3216.2
12.5°	3195.5	3194.6	3189.1	3189.1	3191.9
15°	3166.6	3165.7	3160.3	3157.6	3161.2
17.5°	3134.1	3133.2	3126.9	3119.7	3121.5
20°	3090.8	3090.8	3086.3	3075.5	3072.8
22.5°	3038.5	3041.2	3041.2	3020.4	3012.3
25°	2972.6	2980.7	2983.5	2957.3	2942.0
27.5°	2897.7	2910.4	2917.6	2884.2	2864.4
30°	2812.0	2832.8	2841.8	2805.7	2776.9
32.5°	2718.2	2744.4	2755.2	2720.0	2683.0
35°	2620.8	2648.7	2654.2	2619.9	2581.1
37.5°	2517.0	2545.9	2553.1	2522.4	2474.6
40°	2407.9	2436.7	2436.7	2411.5	2364.6
42.5°	2292.4	2323.1	2322.2	2291.5	2249.1
45°	2172.4	2199.5	2195.9	2166.1	2127.3
47.5°	2048.8	2066.0	2070.5	2035.3	1998.3
50°	1913.5	1930.6	1935.1	1895.4	1866.6
52.5°	1780.0	1790.8	1797.1	1751.1	1730.3
55°	1637.4	1647.3	1651.9	1611.3	1588.7
57.5°	1486.8	1499.4	1504.8	1464.2	1438.9
60°	1332.5	1346.0	1347.8	1309.9	1286.5
62.5°	1175.5	1193.6	1197.2	1159.3	1131.3
65°	1014.9	1036.6	1040.2	1005.0	975.2
67.5°	854.3	883.2	884.1	855.2	820.1
70°	697.4	728.9	728.0	703.7	669.4
72.5°	547.6	576.5	582.8	560.2	526.9
75°	408.7	431.2	438.5	424.0	389.7
77.5°	290.5	311.2	317.6	304.0	278.8
80°	203.9	204.8	212.9	202.1	184.9
82.5°	126.3	124.5	127.2	122.7	112.8
85°	63.2	65.0	67.7	64.1	58.6
87.5°	21.7	22.6	24.4	24.4	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)