

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: P293786

Luminaire Tested: **24GR-LD5-85-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A125-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8436.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

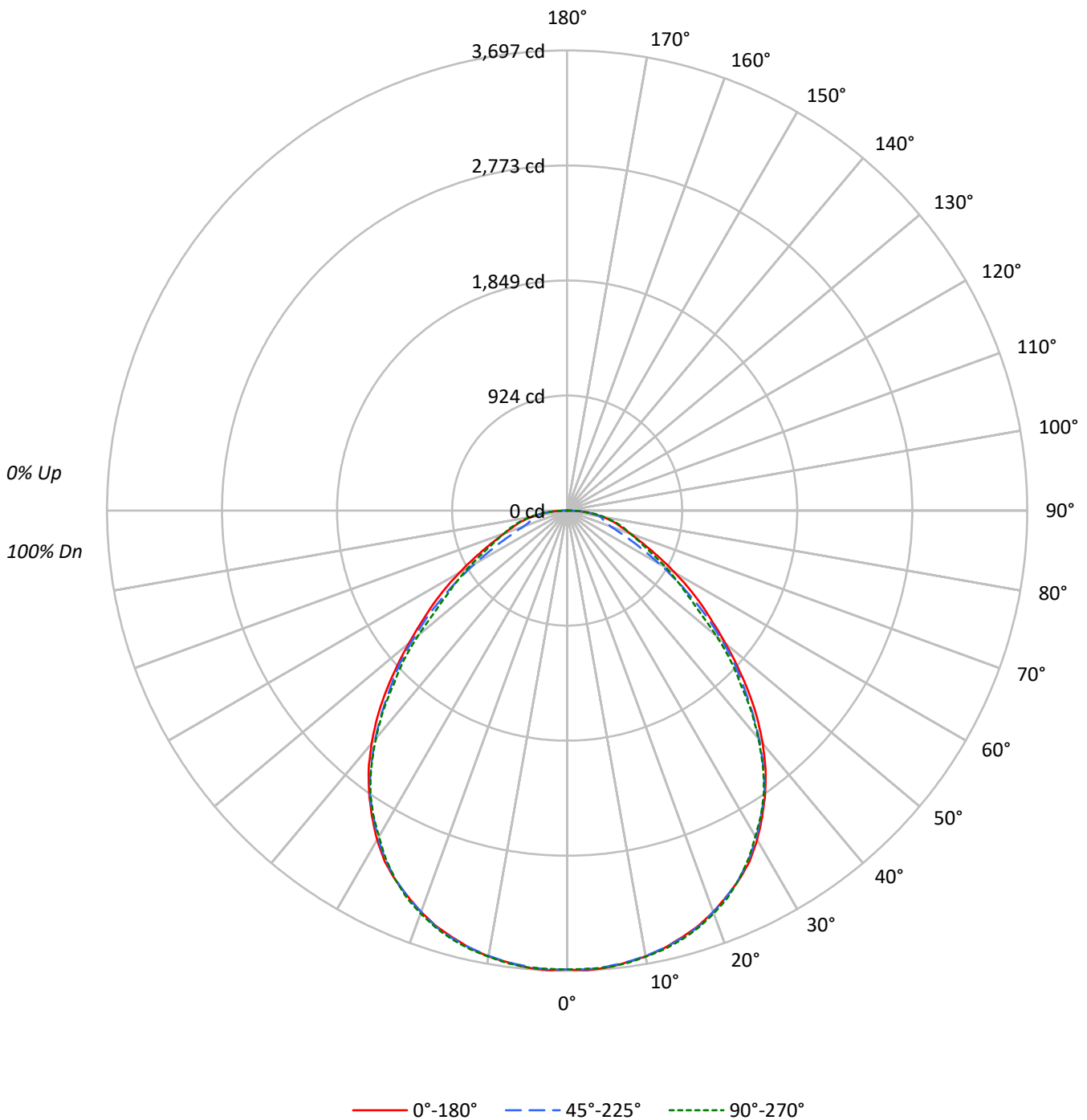
Input Watts (W): 63.612
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4960	4960	4960
5°	4977	4966	4975
10°	4970	4963	4972
15°	4946	4955	4968
20°	4912	4912	4931
25°	4857	4847	4851
30°	4744	4719	4697
35°	4557	4544	4527
40°	4292	4214	4195
45°	3927	3819	3749
50°	3471	3402	3270
55°	3087	2877	2766
60°	2688	2302	2468
65°	2321	1785	2183
70°	2118	1460	2112
75°	2135	1574	2244
80°	2223	2049	2366
85°	2316	2438	2621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.7	4.1
10°-20°	1002.9	11.9
20°-30°	1501.1	17.8
30°-40°	1715.3	20.3
40°-50°	1550.8	18.4
50°-60°	1115.7	13.2
60°-70°	646.8	7.7
70°-80°	383.7	4.5
80°-90°	169.9	2.0
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°	2853.7	33.8
0°-40°	4569.0	54.2
0°-60°	7235.5	85.8
0°-90°	8436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3686	3686	3686	3686	3686	
5°	3685	3680	3677	3672	3684	350
15°	3551	3557	3557	3553	3566	1002
25°	3272	3268	3265	3258	3268	1504
35°	2774	2761	2766	2732	2756	1729
45°	2064	2028	2007	1988	1970	1585
55°	1316	1291	1227	1195	1179	1177
65°	729	648	561	626	686	736
75°	411	344	303	374	432	434
85°	150	162	158	182	170	161
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3686.2	3686.2	3686.2	3686.2	3686.2
2.5°	3696.8	3683.6	3690.2	3686.2	3684.9
5°	3684.9	3679.7	3677.0	3671.8	3683.6
7.5°	3661.2	3657.3	3658.6	3659.9	3667.8
10°	3637.5	3631.0	3632.3	3634.9	3638.9
12.5°	3600.7	3596.7	3598.1	3600.7	3609.9
15°	3550.7	3557.3	3557.3	3553.3	3566.5
17.5°	3500.7	3499.4	3505.9	3494.1	3512.5
20°	3430.9	3432.2	3430.9	3432.2	3444.1
22.5°	3352.0	3358.5	3354.6	3354.6	3367.8
25°	3271.7	3267.7	3265.1	3258.5	3267.7
27.5°	3175.6	3167.7	3161.1	3148.0	3154.6
30°	3053.2	3054.5	3037.4	3025.6	3023.0
32.5°	2916.4	2916.4	2900.6	2891.3	2899.2
35°	2774.2	2761.1	2766.3	2732.1	2755.8
37.5°	2620.2	2599.2	2587.3	2575.5	2583.4
40°	2443.9	2416.3	2399.1	2375.5	2388.6
42.5°	2258.3	2224.1	2203.1	2185.9	2191.2
45°	2063.6	2028.0	2007.0	1988.5	1970.1
47.5°	1858.3	1835.9	1825.4	1801.7	1780.6
50°	1658.2	1650.3	1625.3	1605.6	1562.1
52.5°	1475.3	1468.7	1429.2	1396.3	1341.0
55°	1316.0	1291.0	1226.6	1195.0	1179.2
57.5°	1154.2	1113.4	1035.7	1031.8	1042.3
60°	998.9	948.9	855.4	876.5	917.3
62.5°	858.1	783.0	693.6	743.6	792.3
65°	729.1	647.5	560.6	626.4	685.7
67.5°	622.5	540.9	451.4	539.6	608.0
70°	538.3	455.4	371.1	472.5	536.9
72.5°	468.5	393.5	323.7	419.8	486.9
75°	410.6	343.5	302.7	373.8	431.7
77.5°	352.7	298.7	289.5	333.0	368.5
80°	286.9	261.9	264.5	292.2	305.3
82.5°	214.5	215.8	222.4	244.8	239.5
85°	150.0	161.9	157.9	181.6	169.8
87.5°	82.9	90.8	85.5	104.0	93.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)