

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: P294025

Luminaire Tested: **24GR-LD5-72-A19/156-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-A19/156-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6457.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

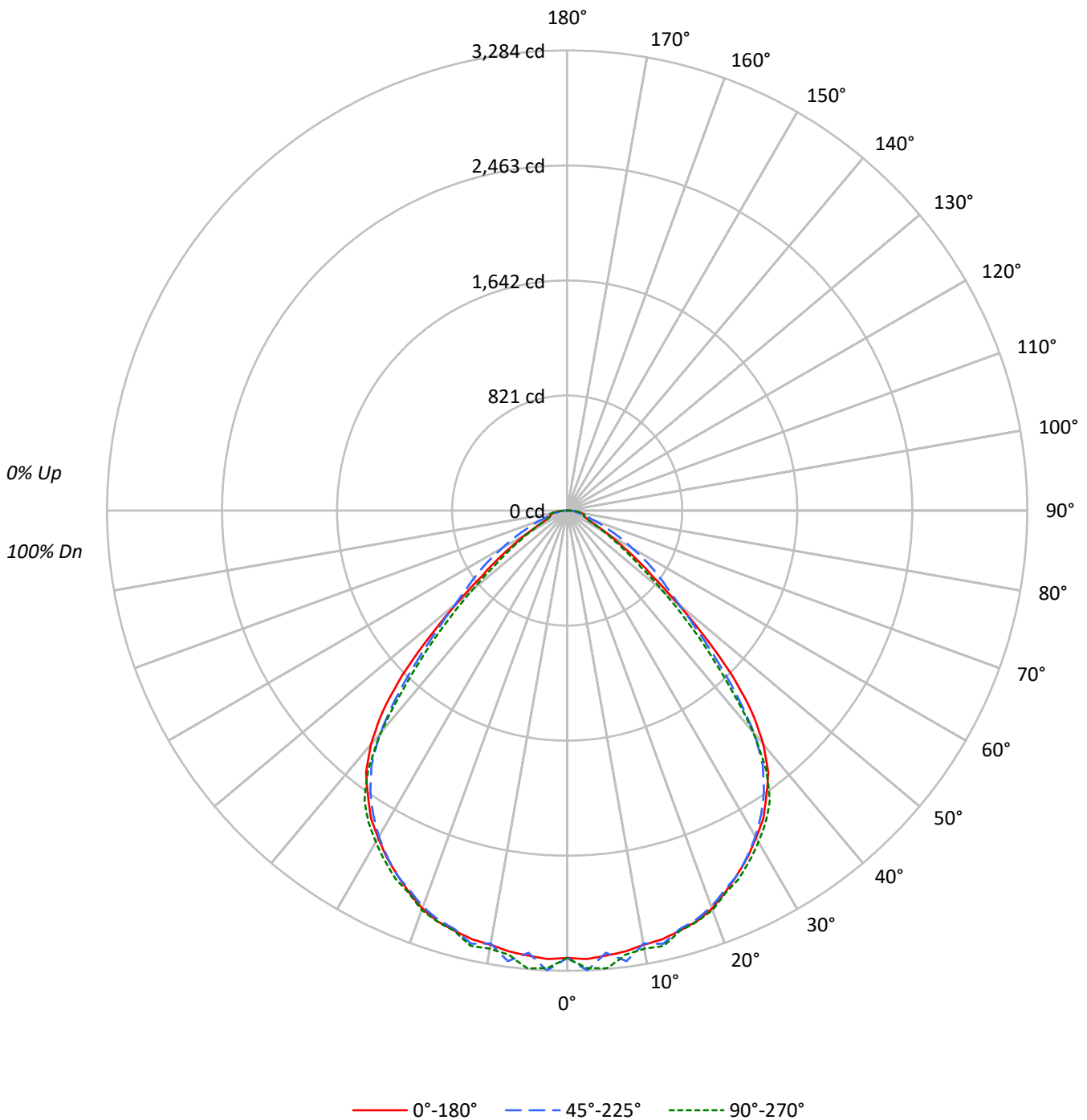
Input Watts (W): 52.545
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53					53			
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48					48			
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43					43			
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39					39			
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36					36			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4296	4296	4296
5°	4305	4277	4429
10°	4298	4286	4338
15°	4323	4309	4326
20°	4327	4309	4344
25°	4260	4263	4304
30°	4189	4176	4244
35°	4071	4021	4142
40°	3823	3652	3632
45°	3169	2867	2719
50°	2132	2175	1858
55°	1406	1824	1219
60°	901	1440	834
65°	581	1099	564
70°	514	787	514
75°	663	625	669
80°	811	539	852
85°	945	800	993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.7	4.7
10°-20°	877.8	13.6
20°-30°	1321.5	20.5
30°-40°	1531.7	23.7
40°-50°	1196.5	18.5
50°-60°	638.9	9.9
60°-70°	328.5	5.1
70°-80°	185.9	2.9
80°-90°	70.6	1.1
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°	2505.0	38.8
0°-40°	4036.6	62.5
0°-60°	5872.0	90.9
0°-90°	6457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3193	3193	3193	3193	3193	
5°	3188	3277	3167	3254	3279	303
15°	3104	3123	3093	3113	3106	877
25°	2869	2860	2871	2867	2899	1322
35°	2478	2467	2448	2497	2522	1545
45°	1665	1666	1507	1493	1429	1255
55°	599	758	778	701	520	553
65°	182	381	345	380	177	201
75°	128	240	120	224	129	129
85°	61	80	52	80	64	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3192.8	3192.8	3192.8	3192.8	3192.8
2.5°	3203.2	3261.2	3284.1	3256.1	3268.5
5°	3187.6	3276.8	3166.9	3254.0	3278.9
7.5°	3173.1	3163.8	3243.6	3160.7	3195.9
10°	3146.1	3152.4	3136.8	3195.9	3175.2
12.5°	3133.7	3170.0	3166.9	3136.8	3182.4
15°	3103.6	3123.3	3093.3	3113.0	3105.7
17.5°	3073.6	3064.2	3061.1	3069.4	3076.7
20°	3021.7	2990.6	3009.3	3011.3	3034.1
22.5°	2947.0	2928.4	2932.5	2951.2	2953.3
25°	2869.3	2859.9	2871.3	2867.2	2899.3
27.5°	2788.4	2775.9	2783.2	2798.8	2818.5
30°	2696.1	2693.0	2687.8	2701.3	2731.4
32.5°	2604.8	2580.0	2575.8	2603.8	2638.0
35°	2478.3	2466.9	2448.3	2497.0	2521.9
37.5°	2358.0	2322.8	2292.7	2321.8	2332.1
40°	2176.6	2149.6	2079.1	2082.2	2067.7
42.5°	1953.6	1933.9	1799.1	1775.3	1734.8
45°	1665.4	1666.4	1506.7	1493.2	1428.9
47.5°	1330.4	1389.5	1250.6	1235.0	1139.6
50°	1018.3	1125.1	1039.0	1014.1	887.6
52.5°	764.2	920.8	893.9	839.9	665.7
55°	599.4	758.0	777.7	701.0	519.5
57.5°	451.1	624.3	656.4	593.1	401.3
60°	334.9	525.7	535.1	510.2	310.1
62.5°	248.9	446.9	434.5	437.6	230.2
65°	182.5	380.6	345.3	379.5	177.3
67.5°	149.3	329.8	268.6	328.7	144.1
70°	130.7	292.4	200.1	289.3	130.7
72.5°	126.5	268.6	158.7	257.2	127.5
75°	127.5	239.5	120.3	224.0	128.6
77.5°	117.2	197.0	91.3	190.8	122.4
80°	104.7	149.3	69.5	151.4	109.9
82.5°	89.2	108.9	56.0	112.0	92.3
85°	61.2	79.8	51.8	79.8	64.3
87.5°	29.0	47.7	32.1	45.6	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)