

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: P294168

Luminaire Tested: **24GR-LD5-85-A19/156-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294168
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-LD5-85-A19/156-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7657.0 lumens
Efficiency: N/A
Efficacy: 117.3 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

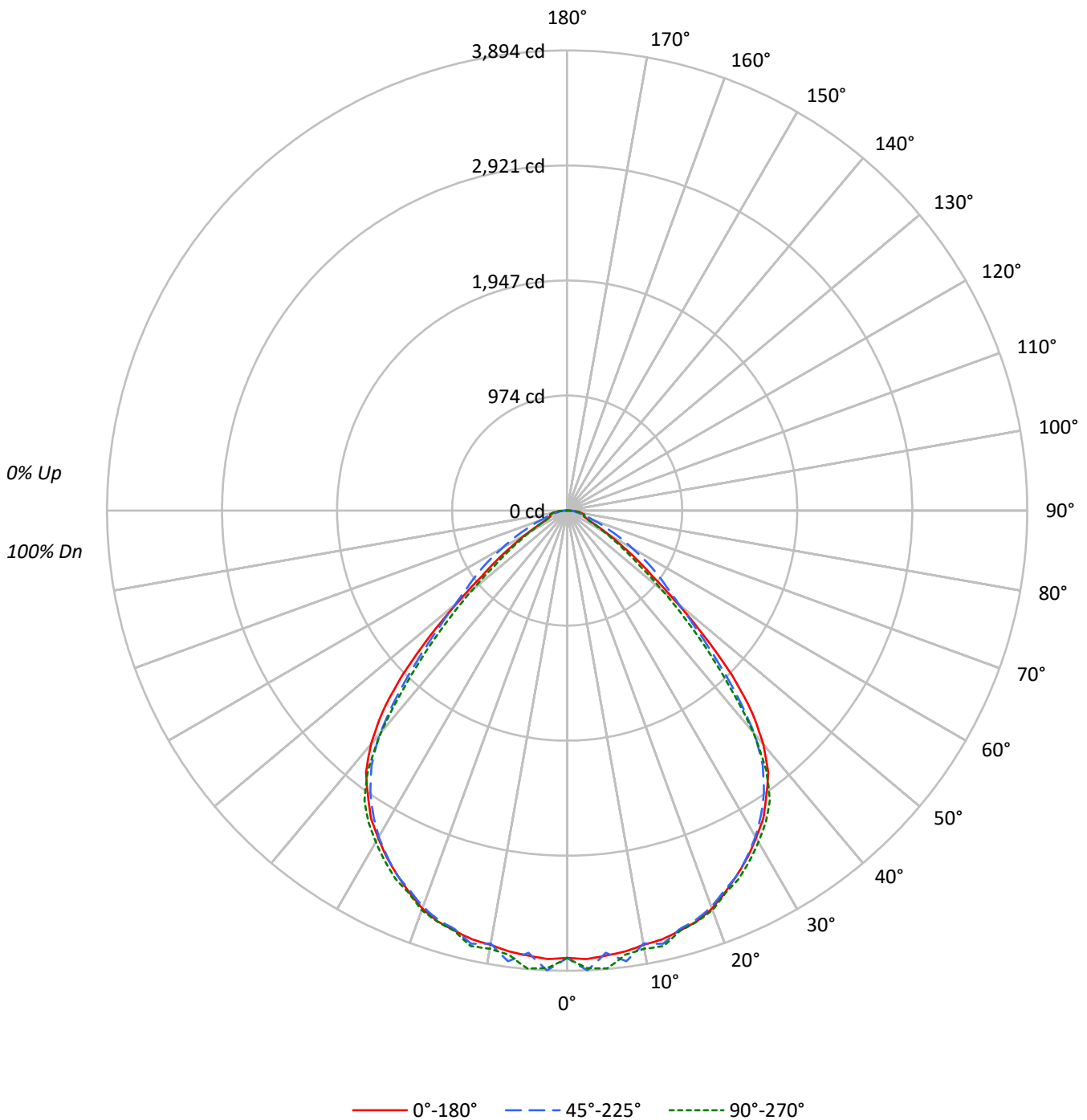
Input Watts (W): 65.286
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5094	5094	5094
5°	5105	5072	5252
10°	5097	5082	5144
15°	5127	5109	5130
20°	5131	5110	5152
25°	5051	5055	5104
30°	4967	4952	5032
35°	4827	4769	4912
40°	4533	4330	4307
45°	3758	3400	3224
50°	2528	2579	2203
55°	1667	2164	1445
60°	1069	1707	989
65°	689	1304	670
70°	609	934	609
75°	786	741	793
80°	962	638	1010
85°	1121	949	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.5	4.7
10°-20°	1040.9	13.6
20°-30°	1567.1	20.5
30°-40°	1816.3	23.7
40°-50°	1418.9	18.5
50°-60°	757.6	9.9
60°-70°	389.6	5.1
70°-80°	220.4	2.9
80°-90°	83.7	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°	2970.5	38.8
0°-40°	4786.8	62.5
0°-60°	6963.3	90.9
0°-90°	7657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3786	3786	3786	3786	3786	
5°	3780	3886	3755	3859	3888	359
15°	3680	3704	3668	3692	3683	1040
25°	3402	3391	3405	3400	3438	1568
35°	2939	2925	2903	2961	2991	1832
45°	1975	1976	1787	1771	1694	1488
55°	711	899	922	831	616	656
65°	216	451	410	450	210	238
75°	151	284	143	266	152	153
85°	73	95	62	95	76	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3786.2	3786.2	3786.2	3786.2	3786.2
2.5°	3798.5	3867.3	3894.4	3861.2	3875.9
5°	3780.0	3885.8	3755.4	3858.7	3888.2
7.5°	3762.8	3751.7	3846.4	3748.0	3789.9
10°	3730.8	3738.2	3719.8	3789.9	3765.3
12.5°	3716.1	3759.1	3755.4	3719.8	3773.9
15°	3680.4	3703.8	3668.1	3691.5	3682.9
17.5°	3644.8	3633.7	3630.0	3639.8	3648.4
20°	3583.3	3546.4	3568.5	3571.0	3598.0
22.5°	3494.7	3472.6	3477.5	3499.7	3502.1
25°	3402.5	3391.4	3405.0	3400.0	3438.2
27.5°	3306.6	3291.8	3300.4	3318.9	3342.3
30°	3197.2	3193.5	3187.3	3203.3	3239.0
32.5°	3088.9	3059.4	3054.5	3087.7	3128.3
35°	2938.9	2925.4	2903.3	2961.1	2990.6
37.5°	2796.3	2754.5	2718.8	2753.2	2765.5
40°	2581.1	2549.1	2465.5	2469.2	2452.0
42.5°	2316.7	2293.3	2133.5	2105.2	2057.2
45°	1974.9	1976.1	1786.7	1770.7	1694.5
47.5°	1577.7	1647.8	1483.0	1464.5	1351.4
50°	1207.5	1334.2	1232.1	1202.6	1052.6
52.5°	906.3	1092.0	1060.0	996.0	789.5
55°	710.8	898.9	922.3	831.3	616.1
57.5°	534.9	740.3	778.4	703.4	475.9
60°	397.2	623.4	634.5	605.0	367.7
62.5°	295.1	530.0	515.2	518.9	273.0
65°	216.4	451.3	409.5	450.1	210.3
67.5°	177.1	391.0	318.5	389.8	170.9
70°	154.9	346.8	237.3	343.1	154.9
72.5°	150.0	318.5	188.1	305.0	151.2
75°	151.2	284.1	142.6	265.6	152.5
77.5°	139.0	233.6	108.2	226.3	145.1
80°	124.2	177.1	82.4	179.5	130.3
82.5°	105.8	129.1	66.4	132.8	109.4
85°	72.6	94.7	61.5	94.7	76.2
87.5°	34.4	56.6	38.1	54.1	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)