

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: P294166

Luminaire Tested: **24GR-LD5-85-A19/156-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294166
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7573.0 lumens
Efficiency: N/A
Efficacy: 118.0 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

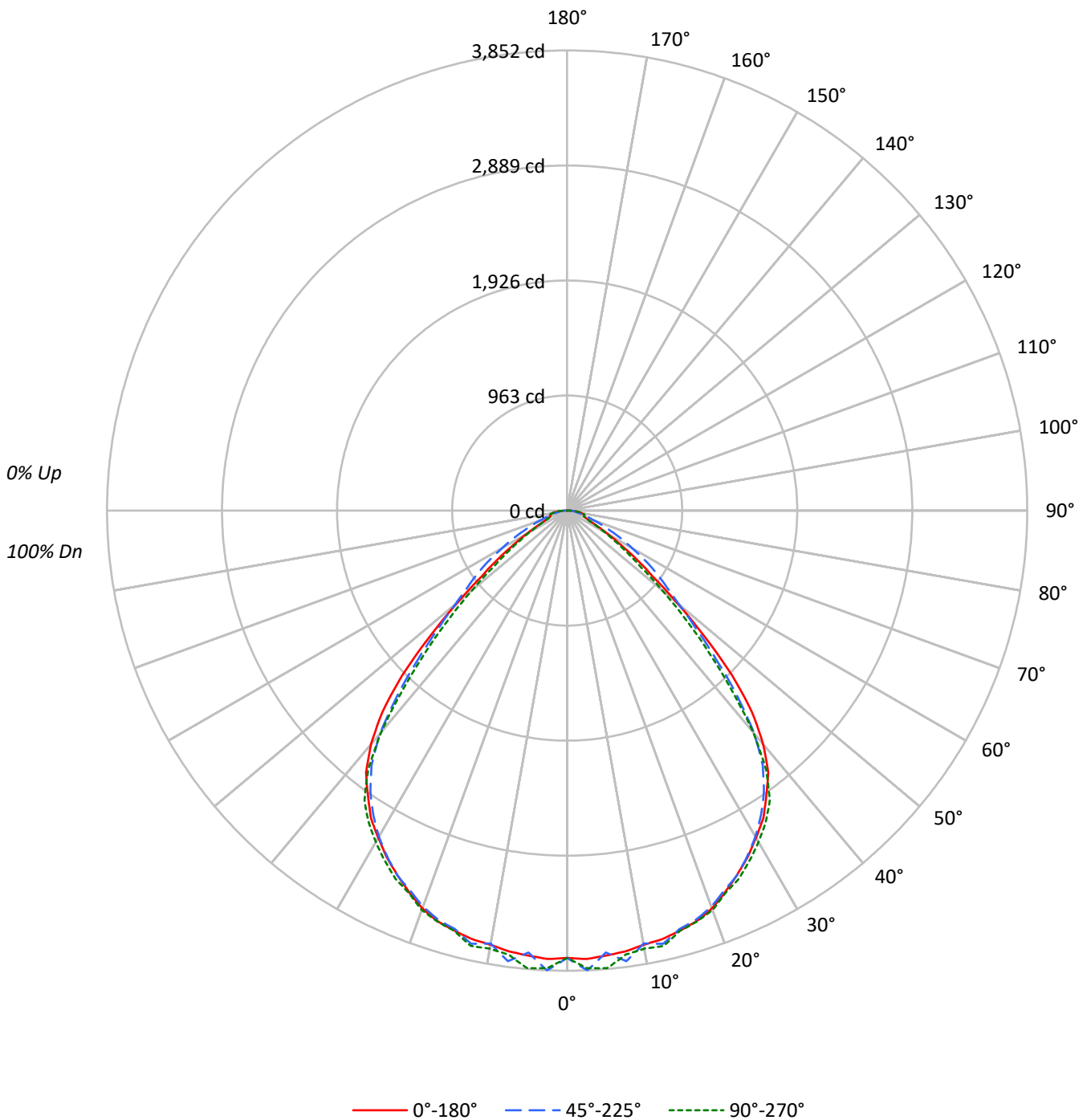
Input Watts (W): 64.17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5038	5038	5038
5°	5049	5017	5194
10°	5041	5026	5088
15°	5070	5053	5074
20°	5074	5054	5095
25°	4996	4999	5048
30°	4913	4898	4977
35°	4774	4716	4858
40°	4484	4283	4259
45°	3717	3362	3189
50°	2500	2551	2179
55°	1649	2140	1429
60°	1057	1689	978
65°	681	1289	662
70°	603	923	603
75°	778	734	784
80°	951	631	999
85°	1108	939	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.5	4.7
10°-20°	1029.5	13.6
20°-30°	1549.9	20.5
30°-40°	1796.4	23.7
40°-50°	1403.3	18.5
50°-60°	749.3	9.9
60°-70°	385.3	5.1
70°-80°	218.0	2.9
80°-90°	82.8	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°	2937.9	38.8
0°-40°	4734.3	62.5
0°-60°	6886.9	90.9
0°-90°	7573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3745	3745	3745	3745	3745	
5°	3739	3843	3714	3816	3846	355
15°	3640	3663	3628	3651	3642	1028
25°	3365	3354	3368	3363	3400	1551
35°	2907	2893	2871	2929	2958	1812
45°	1953	1954	1767	1751	1676	1472
55°	703	889	912	822	609	649
65°	214	446	405	445	208	235
75°	150	281	141	263	151	152
85°	72	94	61	94	75	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3744.6	3744.6	3744.6	3744.6	3744.6
2.5°	3756.8	3824.9	3851.7	3818.8	3833.4
5°	3738.6	3843.1	3714.2	3816.4	3845.6
7.5°	3721.5	3710.6	3804.2	3706.9	3748.3
10°	3689.9	3697.2	3679.0	3748.3	3724.0
12.5°	3675.3	3717.9	3714.2	3679.0	3732.5
15°	3640.0	3663.1	3627.9	3651.0	3642.5
17.5°	3604.8	3593.8	3590.2	3599.9	3608.4
20°	3544.0	3507.5	3529.4	3531.8	3558.6
22.5°	3456.4	3434.5	3439.4	3461.3	3463.7
25°	3365.2	3354.2	3367.6	3362.7	3400.5
27.5°	3270.3	3255.7	3264.2	3282.5	3305.6
30°	3162.1	3158.4	3152.3	3168.2	3203.4
32.5°	3055.1	3025.9	3021.0	3053.8	3094.0
35°	2906.7	2893.3	2871.4	2928.6	2957.8
37.5°	2765.6	2724.3	2689.0	2723.0	2735.2
40°	2552.8	2521.2	2438.4	2442.1	2425.1
42.5°	2291.3	2268.2	2110.1	2082.1	2034.7
45°	1953.2	1954.4	1767.1	1751.3	1675.9
47.5°	1560.4	1629.7	1466.7	1448.5	1336.6
50°	1194.3	1319.6	1218.6	1189.4	1041.1
52.5°	896.3	1080.0	1048.4	985.1	780.8
55°	703.0	889.0	912.1	822.1	609.3
57.5°	529.0	732.1	769.8	695.7	470.7
60°	392.8	616.6	627.6	598.4	363.6
62.5°	291.9	524.2	509.6	513.2	270.0
65°	214.0	446.3	405.0	445.1	208.0
67.5°	175.1	386.7	315.0	385.5	169.0
70°	153.2	343.0	234.7	339.3	153.2
72.5°	148.4	315.0	186.1	301.6	149.6
75°	149.6	280.9	141.1	262.7	150.8
77.5°	137.4	231.1	107.0	223.8	143.5
80°	122.8	175.1	81.5	177.6	128.9
82.5°	104.6	127.7	65.7	131.3	108.2
85°	71.8	93.6	60.8	93.6	75.4
87.5°	34.1	55.9	37.7	53.5	38.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)