

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: P293587

Luminaire Tested: **24GR-LD5-30-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2724.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

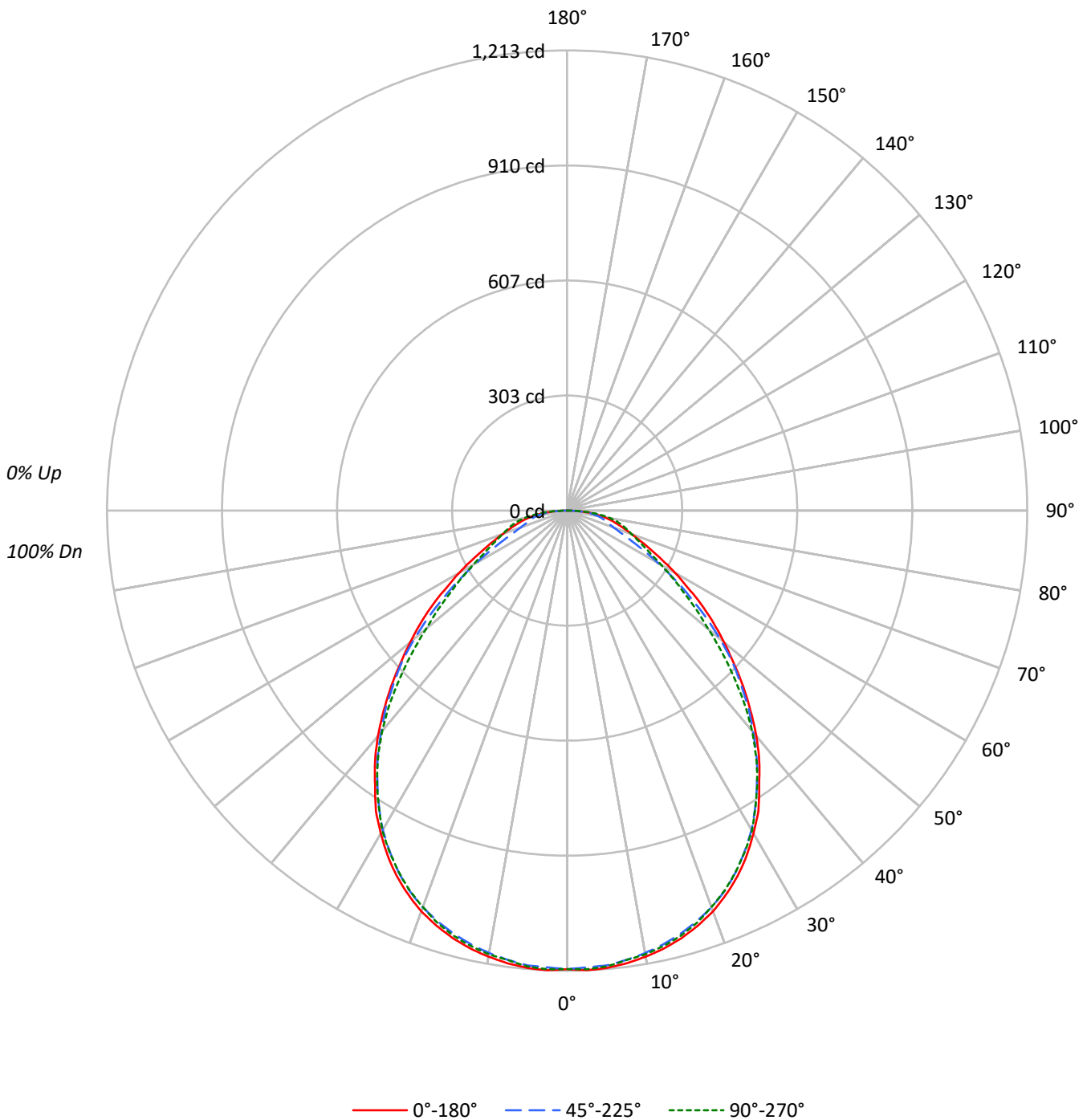
Input Watts (W): 20.274
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1626	1626	1626
5°	1634	1625	1629
10°	1631	1618	1623
15°	1625	1608	1616
20°	1609	1593	1592
25°	1578	1561	1560
30°	1526	1510	1514
35°	1450	1433	1435
40°	1363	1339	1331
45°	1249	1232	1184
50°	1129	1099	1016
55°	1014	923	876
60°	888	743	770
65°	774	584	709
70°	709	510	709
75°	709	543	781
80°	769	639	890
85°	844	721	956



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	4.2
10°-20°	326.6	12.0
20°-30°	484.3	17.8
30°-40°	546.4	20.1
40°-50°	494.8	18.2
50°-60°	357.0	13.1
60°-70°	213.1	7.8
70°-80°	131.8	4.8
80°-90°	55.5	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°	925.4	34.0
0°-40°	1471.7	54.0
0°-60°	2323.6	85.3
0°-90°	2724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1209	1209	1209	1209	1209	
5°	1210	1208	1203	1202	1206	115
15°	1166	1159	1155	1155	1160	329
25°	1063	1057	1052	1048	1051	488
35°	882	881	872	873	874	552
45°	656	652	648	632	622	506
55°	432	419	394	374	373	386
65°	243	214	184	208	223	245
75°	136	118	104	130	150	146
85°	55	48	47	61	62	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.6	1208.6	1208.6	1208.6	1208.6
2.5°	1212.8	1209.4	1205.2	1207.8	1209.9
5°	1209.9	1208.2	1203.1	1201.9	1206.1
7.5°	1203.6	1199.3	1194.7	1196.8	1195.1
10°	1193.9	1190.1	1184.2	1184.6	1187.6
12.5°	1182.1	1177.5	1171.2	1172.8	1175.4
15°	1166.5	1159.4	1154.7	1155.2	1159.8
17.5°	1146.7	1141.3	1135.4	1136.6	1138.8
20°	1124.0	1121.1	1112.7	1110.1	1112.2
22.5°	1095.4	1089.9	1085.3	1084.0	1084.5
25°	1063.0	1057.1	1051.6	1047.9	1050.8
27.5°	1025.1	1020.1	1012.9	1011.7	1014.2
30°	982.2	978.4	972.1	970.4	974.2
32.5°	938.4	932.1	923.3	923.3	924.1
35°	882.5	881.2	872.4	872.8	873.6
37.5°	832.0	826.1	821.0	816.0	818.5
40°	776.0	769.3	762.5	759.2	757.9
42.5°	715.8	710.8	707.8	695.6	692.7
45°	656.5	652.3	647.6	631.7	622.0
47.5°	595.9	595.0	591.3	563.1	553.4
50°	539.5	538.2	524.8	494.9	485.2
52.5°	486.1	477.6	460.0	430.5	428.8
55°	432.2	418.7	393.5	374.1	373.3
57.5°	375.4	359.4	333.7	323.2	328.7
60°	329.9	305.5	276.1	277.3	286.2
62.5°	282.8	255.4	226.4	239.0	249.5
65°	243.2	214.2	183.5	208.3	222.6
67.5°	208.7	181.8	152.3	185.6	199.5
70°	180.1	158.2	129.6	164.5	180.1
72.5°	157.4	137.2	114.9	147.7	165.8
75°	136.3	118.3	104.4	130.0	150.2
77.5°	118.3	100.6	94.3	114.9	134.7
80°	99.3	83.3	82.5	100.2	114.9
82.5°	77.4	66.5	66.5	83.7	92.6
85°	54.7	48.0	46.7	61.0	61.9
87.5°	28.2	26.9	24.4	32.0	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)