

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: P292177

Luminaire Tested: **22GR-LD5-24-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-A-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2543.0 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

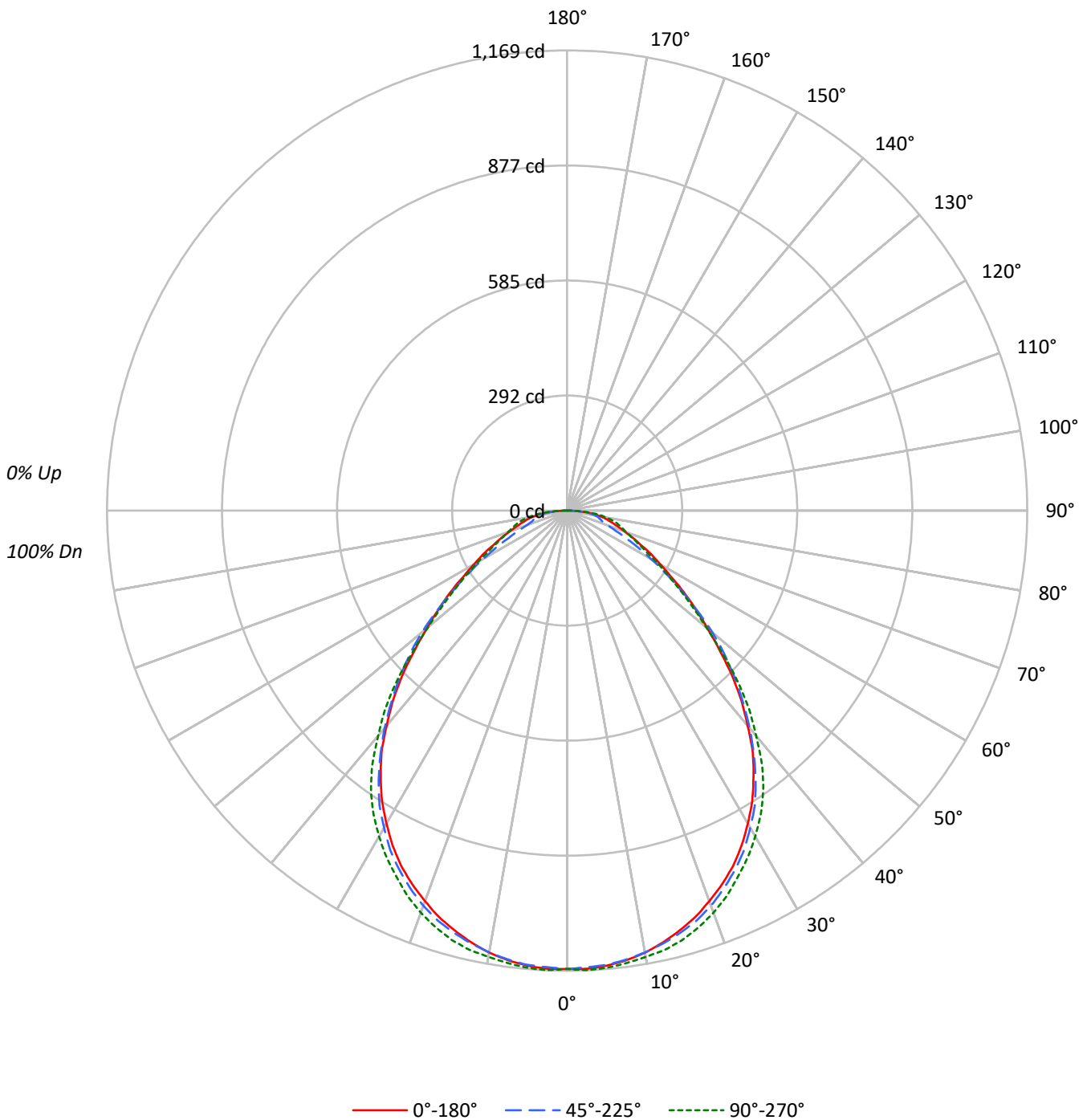
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3134	3134	3134
5°	3135	3130	3149
10°	3116	3114	3145
15°	3076	3093	3147
20°	3023	3059	3113
25°	2959	2992	3047
30°	2852	2891	2970
35°	2712	2743	2854
40°	2507	2534	2623
45°	2252	2293	2329
50°	1947	2017	1927
55°	1699	1655	1633
60°	1471	1325	1414
65°	1315	1040	1270
70°	1220	862	1253
75°	1219	911	1390
80°	1348	1147	1568
85°	1408	1241	1772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	4.3
10°-20°	313.9	12.3
20°-30°	464.2	18.3
30°-40°	523.9	20.6
40°-50°	461.8	18.2
50°-60°	316.8	12.5
60°-70°	186.9	7.4
70°-80°	116.7	4.6
80°-90°	48.6	1.9
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°	888.3	34.9
0°-40°	1412.2	55.5
0°-60°	2190.8	86.1
0°-90°	2543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1160	1158	1159	1163	1166	110
15°	1104	1105	1110	1124	1130	311
25°	996	1000	1008	1021	1026	458
35°	826	833	835	855	869	514
45°	592	595	602	606	612	455
55°	362	353	353	341	348	325
65°	206	182	163	189	199	208
75°	117	105	88	122	134	126
85°	46	43	40	53	57	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.6	1164.6	1164.6	1164.6	<i>1164.6</i>
2.5°	<i>1165.2</i>	<i>1162.2</i>	<i>1161.1</i>	<i>1165.8</i>	<i>1168.7</i>
5°	1160.5	1158.1	1158.7	1162.8	<i>1165.8</i>
7.5°	1152.2	1150.4	1150.4	1156.3	<i>1159.3</i>
10°	1140.3	1139.7	1139.7	1146.8	<i>1151.0</i>
12.5°	1123.8	1124.4	1126.7	1136.2	<i>1143.3</i>
15°	1104.2	1105.4	1110.2	1123.8	<i>1129.7</i>
17.5°	1082.9	1082.9	1092.4	1103.1	<i>1110.2</i>
20°	1055.7	1057.5	1068.1	1080.0	<i>1087.1</i>
22.5°	1027.9	1030.9	1039.7	1053.3	<i>1059.9</i>
25°	996.5	1000.1	1007.8	1020.8	<i>1026.1</i>
27.5°	959.8	964.6	972.9	982.3	<i>993.6</i>
30°	917.8	924.9	930.3	943.3	<i>955.7</i>
32.5°	875.2	881.7	887.7	901.3	<i>915.5</i>
35°	825.5	832.6	835.0	855.1	<i>868.7</i>
37.5°	774.6	777.6	778.8	798.9	<i>813.7</i>
40°	713.7	719.6	721.4	737.3	<i>746.8</i>
42.5°	655.1	657.5	661.0	672.8	<i>684.1</i>
45°	591.8	594.7	602.4	606.0	<i>611.9</i>
47.5°	525.5	534.4	543.2	532.0	<i>532.6</i>
50°	465.1	472.2	481.7	460.4	<i>460.4</i>
52.5°	411.3	414.8	415.4	397.7	<i>401.2</i>
55°	362.2	353.3	352.7	340.9	<i>348.0</i>
57.5°	313.0	301.2	297.1	293.5	<i>301.8</i>
60°	273.4	252.1	246.2	251.5	<i>262.7</i>
62.5°	240.9	213.6	202.4	216.0	<i>226.1</i>
65°	206.5	181.7	163.3	188.8	<i>199.4</i>
67.5°	179.9	156.2	132.6	168.7	<i>176.3</i>
70°	155.0	136.7	109.5	153.3	<i>159.2</i>
72.5°	134.9	120.7	94.7	138.5	<i>145.6</i>
75°	117.2	105.3	87.6	122.5	<i>133.7</i>
77.5°	103.0	89.9	81.7	105.9	<i>119.5</i>
80°	87.0	74.0	74.0	88.8	<i>101.2</i>
82.5°	68.6	58.0	59.8	72.2	<i>81.1</i>
85°	45.6	42.6	40.2	52.7	<i>57.4</i>
87.5°	23.1	23.7	21.3	27.2	<i>27.8</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)