

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: P292286

Luminaire Tested: **22GR-LD5-32-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292286
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-LD5-32-A-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2618.0 lumens
Efficiency: N/A
Efficacy: 107.4 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

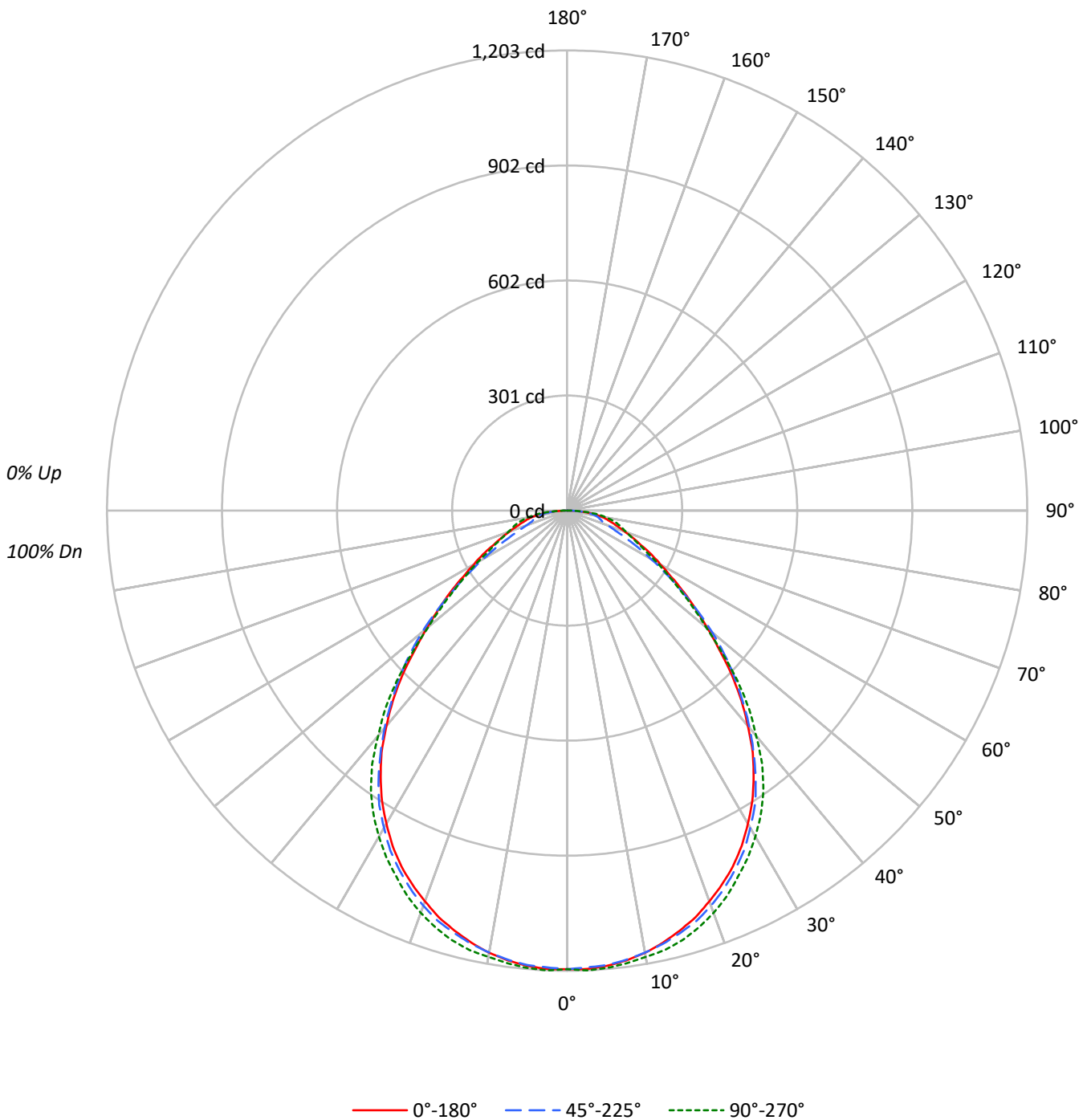
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3226	3226	3226
5°	3227	3222	3242
10°	3208	3206	3238
15°	3167	3184	3240
20°	3113	3149	3205
25°	3046	3081	3137
30°	2936	2976	3057
35°	2792	2824	2938
40°	2581	2609	2701
45°	2318	2360	2397
50°	2004	2076	1984
55°	1749	1704	1681
60°	1515	1364	1456
65°	1354	1070	1307
70°	1256	887	1290
75°	1254	938	1432
80°	1389	1181	1615
85°	1448	1278	1825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	4.3
10°-20°	323.1	12.3
20°-30°	477.9	18.3
30°-40°	539.3	20.6
40°-50°	475.4	18.2
50°-60°	326.1	12.5
60°-70°	192.4	7.4
70°-80°	120.1	4.6
80°-90°	50.1	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°	914.5	34.9
0°-40°	1453.8	55.5
0°-60°	2255.4	86.1
0°-90°	2618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1195	1192	1193	1197	1200	113
15°	1137	1138	1143	1157	1163	320
25°	1026	1030	1038	1051	1056	471
35°	850	857	860	880	894	530
45°	609	612	620	624	630	468
55°	373	364	363	351	358	334
65°	213	187	168	194	205	214
75°	121	108	90	126	138	129
85°	47	44	41	54	59	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.9	1198.9	1198.9	1198.9	1198.9
2.5°	1199.6	1196.5	1195.3	1200.2	1203.2
5°	1194.7	1192.2	1192.9	1197.1	1200.2
7.5°	1186.2	1184.3	1184.3	1190.4	1193.5
10°	1174.0	1173.4	1173.4	1180.7	1184.9
12.5°	1156.9	1157.5	1160.0	1169.7	1177.0
15°	1136.8	1138.0	1142.9	1156.9	1163.0
17.5°	1114.9	1114.9	1124.6	1135.6	1142.9
20°	1086.9	1088.7	1099.6	1111.8	1119.1
22.5°	1058.2	1061.3	1070.4	1084.4	1091.1
25°	1025.9	1029.6	1037.5	1050.9	1056.4
27.5°	988.2	993.0	1001.6	1011.3	1022.9
30°	944.9	952.2	957.7	971.1	983.9
32.5°	901.0	907.7	913.8	927.8	942.5
35°	849.9	857.2	859.6	880.3	894.3
37.5°	797.5	800.5	801.7	822.4	837.7
40°	734.7	740.8	742.6	759.1	768.8
42.5°	674.4	676.8	680.5	692.7	704.3
45°	609.2	612.3	620.2	623.8	629.9
47.5°	541.0	550.1	559.3	547.7	548.3
50°	478.8	486.2	495.9	474.0	474.0
52.5°	423.4	427.1	427.7	409.4	413.1
55°	372.8	363.7	363.1	350.9	358.2
57.5°	322.3	310.1	305.8	302.2	310.7
60°	281.5	259.5	253.4	258.9	270.5
62.5°	248.0	219.9	208.4	222.4	232.7
65°	212.6	187.0	168.1	194.3	205.3
67.5°	185.2	160.8	136.5	173.6	181.5
70°	159.6	140.7	112.7	157.8	163.9
72.5°	138.9	124.3	97.5	142.6	149.9
75°	120.6	108.4	90.2	126.1	137.7
77.5°	106.0	92.6	84.1	109.1	123.1
80°	89.6	76.2	76.2	91.4	104.2
82.5°	70.7	59.7	61.5	74.3	83.5
85°	46.9	43.9	41.4	54.2	59.1
87.5°	23.8	24.4	21.9	28.0	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)