

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: P292187

Luminaire Tested: **22GR-LD5-32-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292187
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-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2949.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

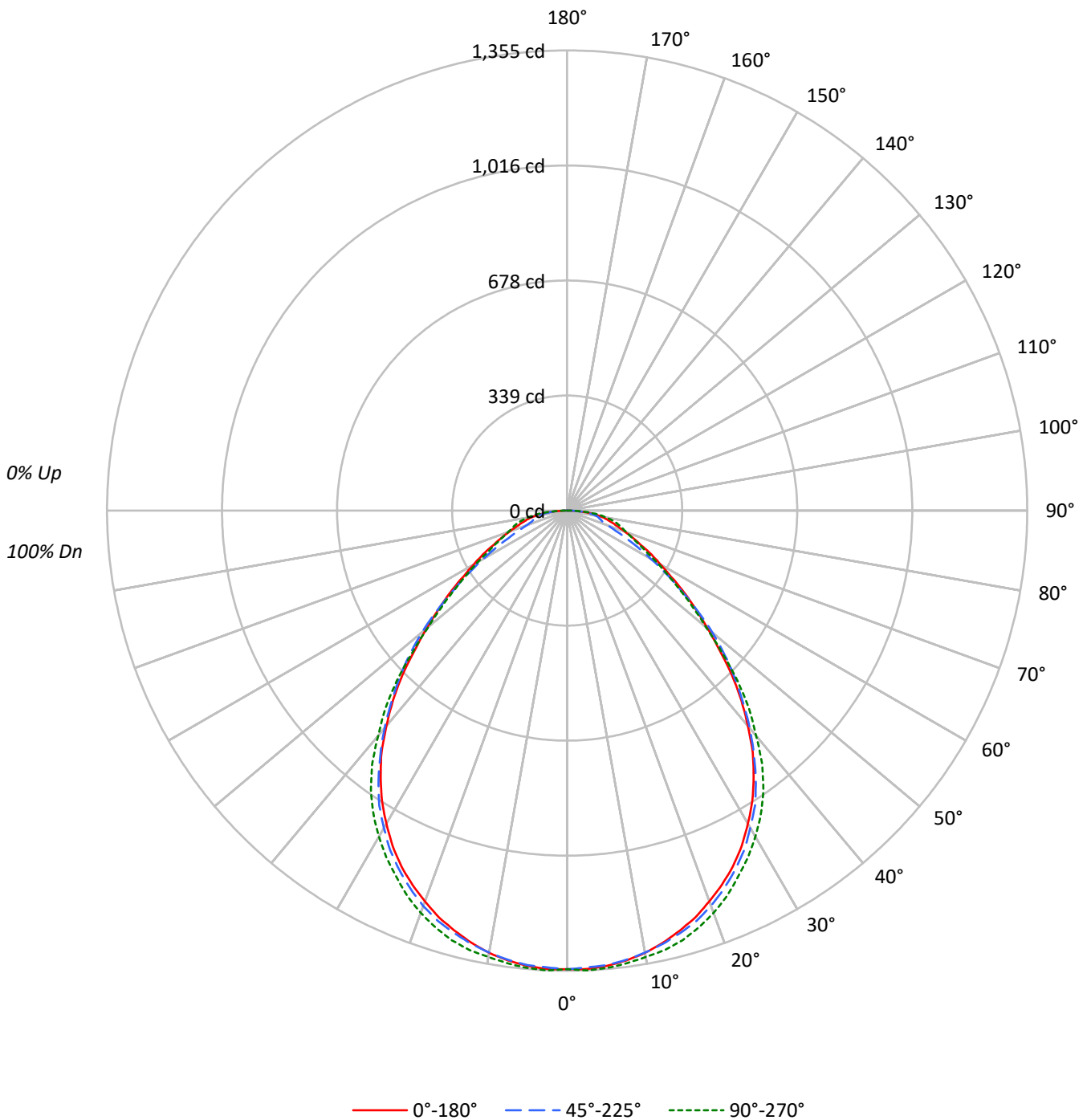
Input Watts (W): 24.552
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3634	3634	3634
5°	3635	3630	3652
10°	3613	3612	3647
15°	3567	3587	3650
20°	3506	3547	3610
25°	3431	3470	3533
30°	3307	3352	3444
35°	3145	3181	3309
40°	2907	2938	3042
45°	2611	2659	2700
50°	2258	2339	2235
55°	1970	1919	1893
60°	1706	1537	1640
65°	1525	1206	1473
70°	1415	999	1452
75°	1413	1056	1613
80°	1564	1330	1818
85°	1630	1442	2056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	4.3
10°-20°	364.0	12.3
20°-30°	538.3	18.3
30°-40°	607.5	20.6
40°-50°	535.5	18.2
50°-60°	367.4	12.5
60°-70°	216.8	7.4
70°-80°	135.3	4.6
80°-90°	56.4	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°	1030.1	34.9
0°-40°	1637.6	55.5
0°-60°	2540.5	86.1
0°-90°	2949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1346	1343	1344	1348	1352	128
15°	1280	1282	1287	1303	1310	361
25°	1156	1160	1169	1184	1190	531
35°	957	966	968	992	1007	597
45°	686	690	699	703	710	527
55°	420	410	409	395	404	377
65°	240	211	189	219	231	241
75°	136	122	102	142	155	146
85°	53	49	47	61	67	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350.5	1350.5	1350.5	1350.5	1350.5
2.5°	1351.2	1347.8	1346.4	1351.9	1355.3
5°	1345.7	1343.0	1343.7	1348.5	1351.9
7.5°	1336.1	1334.1	1334.1	1340.9	1344.4
10°	1322.4	1321.7	1321.7	1329.9	1334.8
12.5°	1303.2	1303.9	1306.6	1317.6	1325.8
15°	1280.5	1281.9	1287.4	1303.2	1310.0
17.5°	1255.8	1255.8	1266.8	1279.2	1287.4
20°	1224.3	1226.3	1238.7	1252.4	1260.6
22.5°	1192.0	1195.4	1205.7	1221.5	1229.1
25°	1155.6	1159.8	1168.7	1183.8	1190.0
27.5°	1113.1	1118.6	1128.2	1139.2	1152.2
30°	1064.4	1072.6	1078.8	1093.9	1108.3
32.5°	1015.0	1022.5	1029.4	1045.2	1061.6
35°	957.3	965.6	968.3	991.6	1007.4
37.5°	898.3	901.7	903.1	926.4	943.6
40°	827.6	834.5	836.5	855.1	866.0
42.5°	759.7	762.4	766.5	780.3	793.3
45°	686.2	689.7	698.6	702.7	709.6
47.5°	609.4	619.7	630.0	616.9	617.6
50°	539.4	547.6	558.6	533.9	533.9
52.5°	476.9	481.1	481.7	461.2	465.3
55°	420.0	409.7	409.0	395.3	403.5
57.5°	363.0	349.3	344.5	340.4	350.0
60°	317.0	292.3	285.5	291.7	304.7
62.5°	279.3	247.7	234.7	250.5	262.1
65°	239.5	210.7	189.4	218.9	231.3
67.5°	208.6	181.2	153.7	195.6	204.5
70°	179.8	158.5	127.0	177.7	184.6
72.5°	156.5	140.0	109.8	160.6	168.8
75°	135.9	122.2	101.6	142.1	155.1
77.5°	119.4	104.3	94.7	122.8	138.6
80°	100.9	85.8	85.8	102.9	117.3
82.5°	79.6	67.3	69.3	83.7	94.0
85°	52.8	49.4	46.7	61.1	66.6
87.5°	26.8	27.4	24.7	31.6	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)