

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: P292290

Luminaire Tested: **22GR-LD5-32-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292290
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2970.0 lumens
Efficiency: N/A
Efficacy: 118.3 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

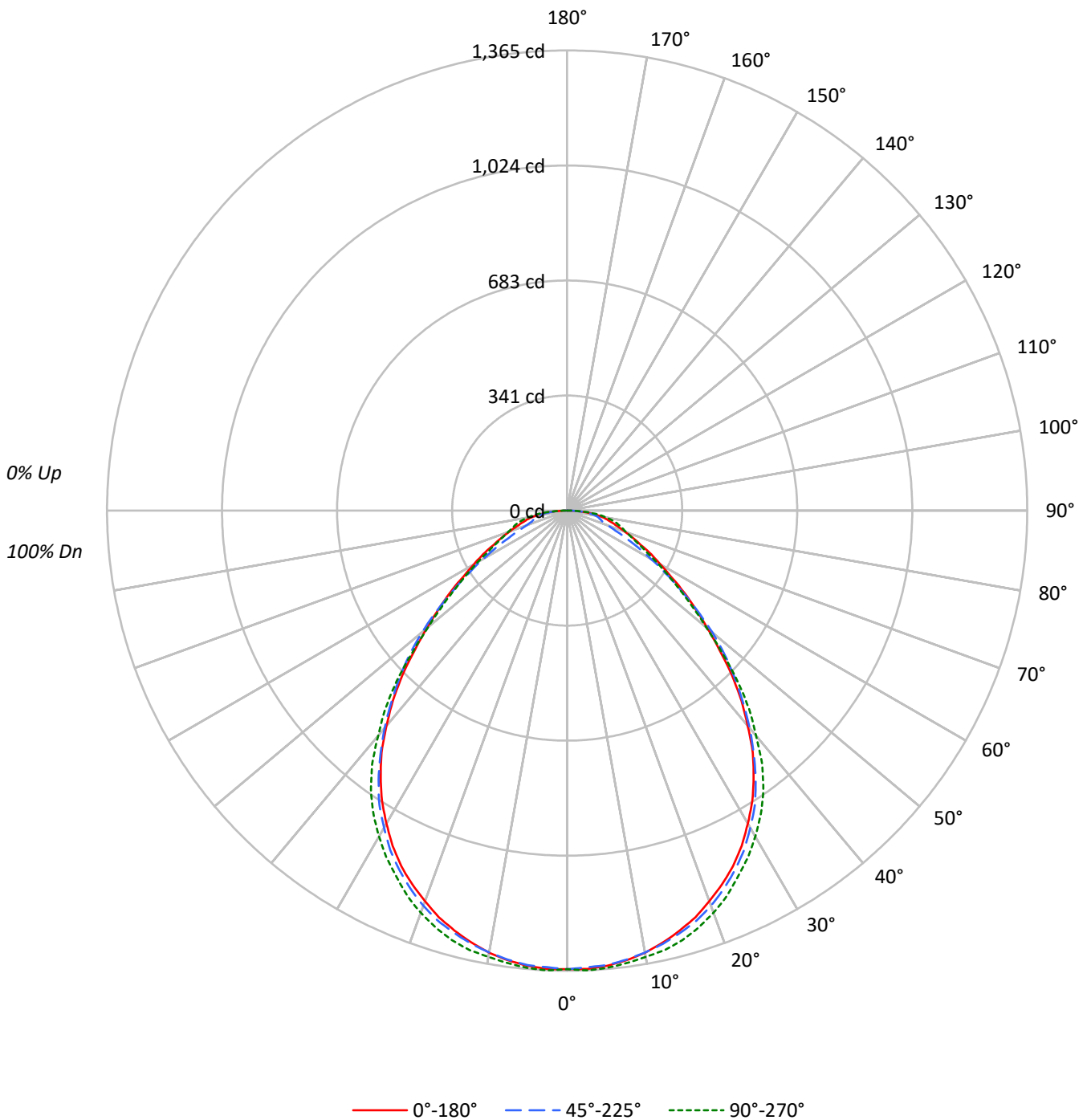
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3660	3660	3660
5°	3661	3655	3678
10°	3639	3637	3673
15°	3593	3612	3676
20°	3531	3572	3636
25°	3456	3495	3558
30°	3331	3376	3468
35°	3167	3204	3333
40°	2928	2960	3064
45°	2630	2678	2719
50°	2274	2355	2251
55°	1985	1932	1907
60°	1718	1547	1652
65°	1536	1215	1483
70°	1425	1006	1463
75°	1422	1064	1624
80°	1574	1339	1832
85°	1643	1451	2069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	4.3
10°-20°	366.6	12.3
20°-30°	542.2	18.3
30°-40°	611.8	20.6
40°-50°	539.3	18.2
50°-60°	370.0	12.5
60°-70°	218.3	7.4
70°-80°	136.2	4.6
80°-90°	56.8	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°	1037.5	34.9
0°-40°	1649.3	55.5
0°-60°	2558.6	86.1
0°-90°	2970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2970.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1355	1353	1353	1358	1362	129
15°	1290	1291	1297	1312	1319	364
25°	1164	1168	1177	1192	1198	535
35°	964	972	975	999	1015	601
45°	691	695	704	708	715	531
55°	423	413	412	398	406	379
65°	241	212	191	220	233	243
75°	137	123	102	143	156	147
85°	53	50	47	62	67	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1360.2	1360.2	1360.2	1360.2	1360.2
2.5°	1360.8	1357.4	1356.0	1361.5	1365.0
5°	1355.3	1352.6	1353.2	1358.1	1361.5
7.5°	1345.6	1343.6	1343.6	1350.5	1353.9
10°	1331.8	1331.1	1331.1	1339.4	1344.3
12.5°	1312.5	1313.2	1315.9	1327.0	1335.3
15°	1289.7	1291.0	1296.6	1312.5	1319.4
17.5°	1264.8	1264.8	1275.8	1288.3	1296.6
20°	1233.0	1235.1	1247.5	1261.3	1269.6
22.5°	1200.5	1204.0	1214.3	1230.2	1237.8
25°	1163.9	1168.0	1177.0	1192.2	1198.4
27.5°	1121.0	1126.5	1136.2	1147.3	1160.4
30°	1071.9	1080.2	1086.5	1101.7	1116.2
32.5°	1022.2	1029.8	1036.7	1052.6	1069.2
35°	964.1	972.4	975.2	998.7	1014.6
37.5°	904.7	908.2	909.5	933.0	950.3
40°	833.5	840.4	842.5	861.2	872.2
42.5°	765.1	767.9	772.0	785.8	799.0
45°	691.1	694.6	703.6	707.7	714.6
47.5°	613.7	624.1	634.5	621.3	622.0
50°	543.2	551.5	562.6	537.7	537.7
52.5°	480.3	484.5	485.2	464.4	468.6
55°	423.0	412.6	411.9	398.1	406.4
57.5°	365.6	351.8	346.9	342.8	352.5
60°	319.3	294.4	287.5	293.7	306.9
62.5°	281.3	249.5	236.4	252.3	264.0
65°	241.2	212.2	190.8	220.5	232.9
67.5°	210.1	182.5	154.8	197.0	206.0
70°	181.1	159.7	127.9	179.0	185.9
72.5°	157.6	141.0	110.6	161.7	170.0
75°	136.8	123.0	102.3	143.1	156.2
77.5°	120.3	105.1	95.4	123.7	139.6
80°	101.6	86.4	86.4	103.7	118.2
82.5°	80.2	67.7	69.8	84.3	94.7
85°	53.2	49.8	47.0	61.5	67.0
87.5°	27.0	27.6	24.9	31.8	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)