

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: P292282

Luminaire Tested: **22GR-LD5-28-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292282
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-LD5-28-A-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2731.0 lumens
Efficiency: N/A
Efficacy: 120.4 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

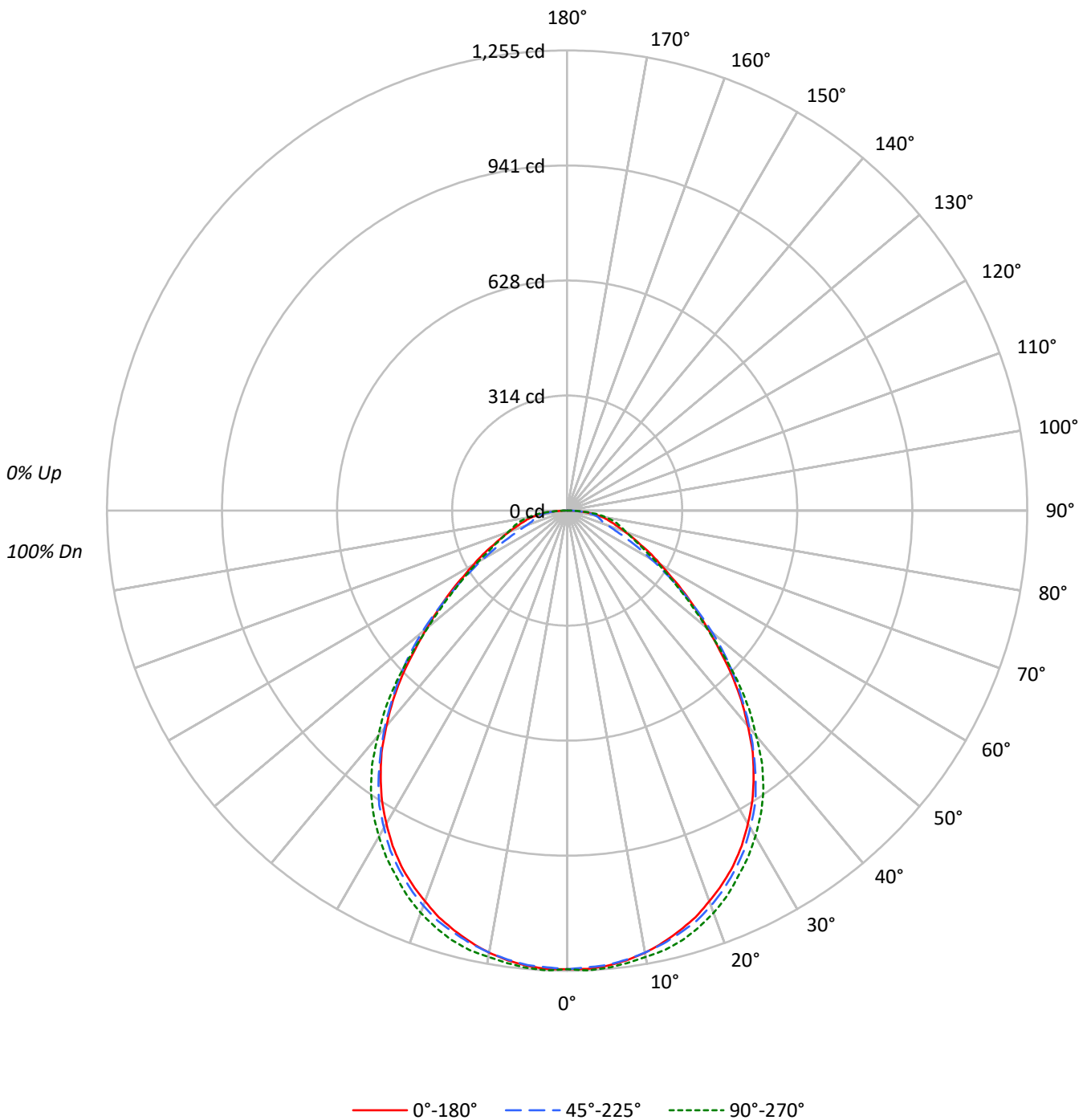
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3366	3366	3366
5°	3367	3361	3382
10°	3346	3345	3378
15°	3304	3321	3380
20°	3247	3285	3343
25°	3178	3214	3272
30°	3063	3104	3189
35°	2912	2946	3065
40°	2692	2721	2817
45°	2418	2462	2501
50°	2091	2166	2070
55°	1825	1777	1753
60°	1580	1423	1519
65°	1412	1117	1364
70°	1310	925	1345
75°	1308	978	1493
80°	1447	1230	1684
85°	1510	1334	1902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	4.3
10°-20°	337.1	12.3
20°-30°	498.5	18.3
30°-40°	562.6	20.6
40°-50°	495.9	18.2
50°-60°	340.2	12.5
60°-70°	200.8	7.4
70°-80°	125.3	4.6
80°-90°	52.2	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°	954.0	34.9
0°-40°	1516.6	55.5
0°-60°	2352.7	86.1
0°-90°	2731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1246	1244	1244	1249	1252	118
15°	1186	1187	1192	1207	1213	334
25°	1070	1074	1082	1096	1102	491
35°	886	894	897	918	933	552
45°	636	639	647	651	657	488
55°	389	379	379	366	374	349
65°	222	195	175	203	214	223
75°	126	113	94	132	144	135
85°	49	46	43	57	62	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1250.7	1250.7	1250.7	1250.7	1250.7
2.5°	1251.3	1248.2	1246.9	1252.0	1255.1
5°	1246.3	1243.7	1244.3	1248.8	1252.0
7.5°	1237.4	1235.4	1235.4	1241.8	1245.0
10°	1224.6	1224.0	1224.0	1231.6	1236.1
12.5°	1206.8	1207.5	1210.0	1220.2	1227.8
15°	1185.9	1187.1	1192.2	1206.8	1213.2
17.5°	1163.0	1163.0	1173.2	1184.6	1192.2
20°	1133.8	1135.7	1147.1	1159.8	1167.4
22.5°	1103.9	1107.1	1116.6	1131.2	1138.2
25°	1070.2	1074.0	1082.3	1096.3	1102.0
27.5°	1030.8	1035.9	1044.8	1055.0	1067.0
30°	985.7	993.3	999.0	1013.0	1026.4
32.5°	939.9	946.9	953.3	967.9	983.1
35°	886.5	894.2	896.7	918.3	932.9
37.5°	831.9	835.1	836.3	857.9	873.8
40°	766.4	772.8	774.7	791.9	802.0
42.5°	703.5	706.1	709.9	722.6	734.7
45°	635.5	638.7	647.0	650.8	657.1
47.5°	564.3	573.9	583.4	571.3	572.0
50°	499.5	507.1	517.3	494.4	494.4
52.5°	441.7	445.5	446.1	427.1	430.9
55°	388.9	379.4	378.8	366.1	373.7
57.5°	336.2	323.5	319.0	315.2	324.1
60°	293.6	270.7	264.4	270.1	282.2
62.5°	258.7	229.4	217.3	232.0	242.8
65°	221.8	195.1	175.4	202.7	214.2
67.5°	193.2	167.8	142.4	181.1	189.4
70°	166.5	146.8	117.6	164.6	171.0
72.5°	144.9	129.6	101.7	148.7	156.3
75°	125.8	113.1	94.1	131.6	143.6
77.5°	110.6	96.6	87.7	113.8	128.4
80°	93.4	79.4	79.4	95.3	108.7
82.5°	73.7	62.3	64.2	77.5	87.1
85°	48.9	45.8	43.2	56.6	61.6
87.5°	24.8	25.4	22.9	29.2	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)