

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: P292677

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-A19/156-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2487.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

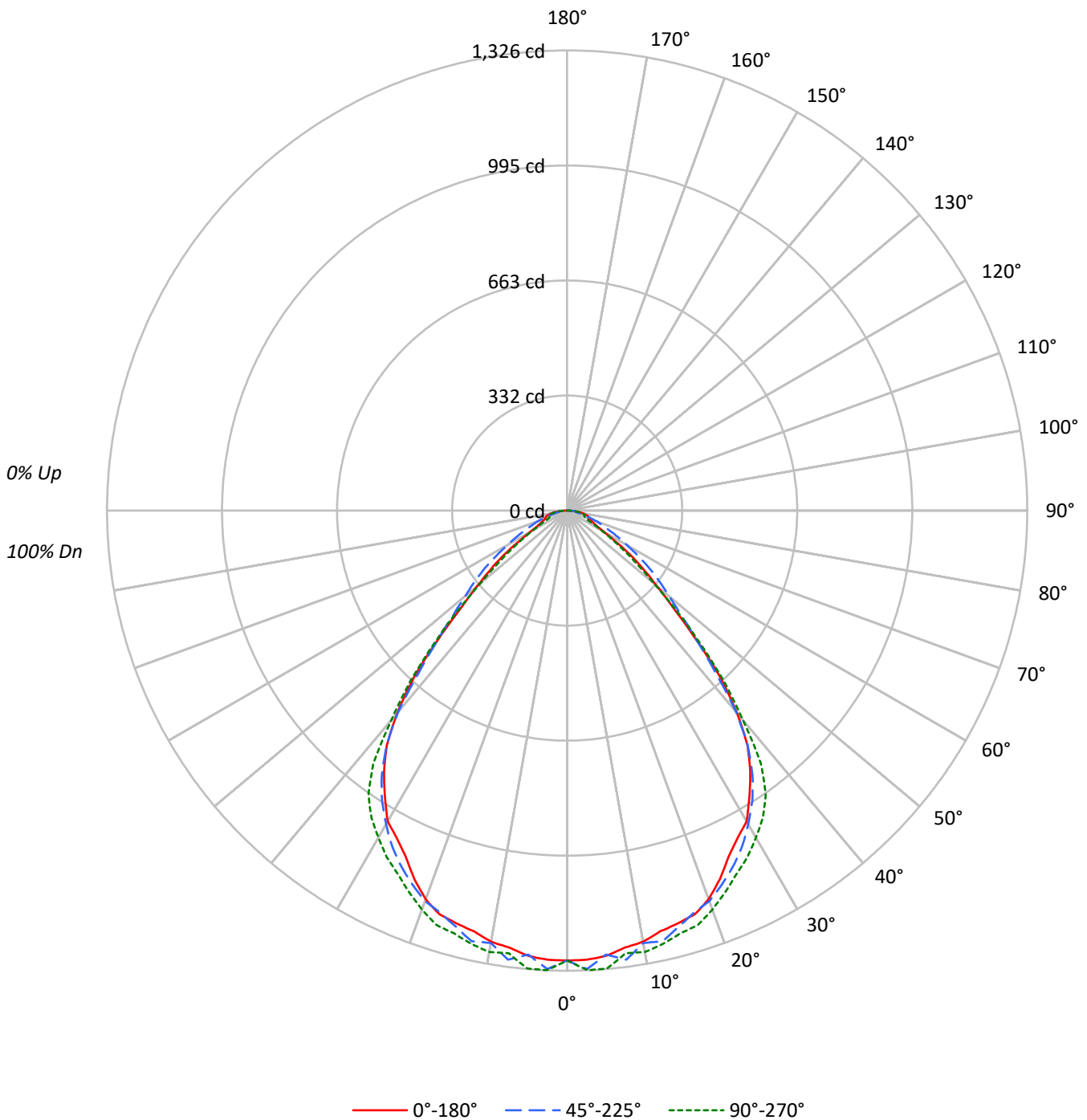
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88					88			
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54					54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48					48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40					40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36					36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3488	3488	3488
5°	3479	3468	3577
10°	3447	3457	3529
15°	3431	3458	3513
20°	3413	3430	3504
25°	3267	3360	3429
30°	3214	3243	3381
35°	3022	3061	3278
40°	2678	2660	2765
45°	2000	2005	2060
50°	1408	1602	1364
55°	1039	1353	932
60°	650	1069	609
65°	530	847	425
70°	526	706	419
75°	652	518	543
80°	727	409	663
85°	722	760	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	5.0
10°-20°	351.4	14.1
20°-30°	520.5	20.9
30°-40°	583.1	23.4
40°-50°	428.4	17.2
50°-60°	239.5	9.6
60°-70°	133.5	5.4
70°-80°	78.4	3.2
80°-90°	28.8	1.2
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°	995.4	40.0
0°-40°	1578.4	63.5
0°-60°	2246.3	90.3
0°-90°	2487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1288	1312	1284	1310	1324	122
15°	1232	1239	1241	1260	1261	348
25°	1100	1109	1132	1147	1155	510
35°	920	921	932	974	998	570
45°	526	568	527	564	541	411
55°	222	270	288	288	199	198
65°	83	148	133	170	67	86
75°	63	88	50	100	52	63
85°	23	35	25	32	24	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.2	1296.2	1296.2	1296.2	1296.2
2.5°	1295.6	1307.3	1322.5	1324.3	1325.5
5°	1288.0	1312.0	1283.9	1310.2	1324.3
7.5°	1270.4	1285.0	1305.5	1279.2	1286.8
10°	1261.6	1265.1	1265.1	1297.9	1291.5
12.5°	1241.7	1265.1	1271.0	1264.5	1278.6
15°	1231.7	1239.3	1241.1	1259.8	1261.0
17.5°	1220.6	1218.8	1214.7	1228.2	1252.2
20°	1191.9	1185.4	1197.7	1214.1	1223.5
22.5°	1149.7	1151.4	1166.1	1179.5	1190.1
25°	1100.4	1109.2	1131.5	1147.3	1154.9
27.5°	1063.5	1076.4	1091.7	1110.4	1125.6
30°	1034.2	1033.1	1043.6	1070.6	1088.1
32.5°	977.4	981.5	992.6	1024.9	1049.5
35°	920.0	920.6	931.7	973.9	997.9
37.5°	853.8	849.1	855.5	901.2	917.0
40°	762.3	763.5	757.1	789.3	787.0
42.5°	655.7	665.1	631.7	673.9	670.9
45°	525.6	568.4	526.8	564.3	541.4
47.5°	414.9	478.1	443.6	471.1	428.3
50°	336.3	401.4	382.6	394.9	325.8
52.5°	276.0	328.7	334.6	337.5	254.3
55°	221.5	269.5	288.3	287.7	198.6
57.5°	163.5	219.2	240.8	249.6	150.6
60°	120.7	182.2	198.6	218.0	113.1
62.5°	97.3	160.0	164.1	191.0	86.1
65°	83.2	147.7	133.0	170.5	66.8
67.5°	73.8	137.7	108.4	152.4	56.8
70°	66.8	122.5	89.7	136.5	53.3
72.5°	65.0	104.3	69.1	121.9	52.7
75°	62.7	88.5	49.8	100.2	52.2
77.5°	53.9	75.6	35.7	77.3	48.6
80°	46.9	60.4	26.4	58.0	42.8
82.5°	36.3	45.7	23.4	43.9	34.6
85°	23.4	34.6	24.6	31.6	24.0
87.5°	11.1	19.3	17.6	17.0	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)