

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: P292568

Luminaire Tested: **22GR-LD5-24-A19/156-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292568
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-LD5-24-A19/156-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2505.0 lumens
Efficiency: N/A
Efficacy: 134.7 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

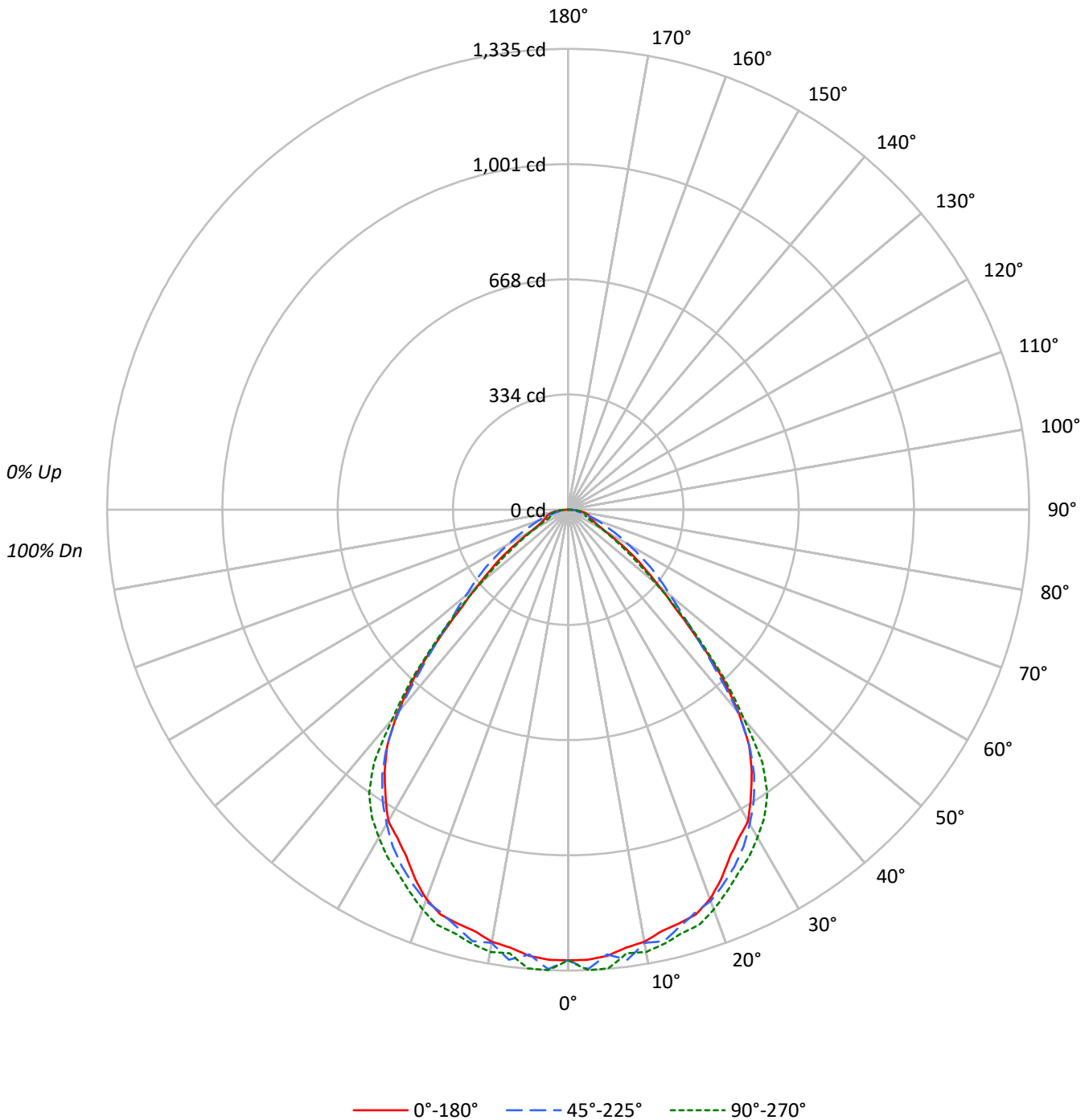
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3513	3513	3513
5°	3504	3493	3603
10°	3472	3482	3554
15°	3456	3483	3538
20°	3438	3455	3529
25°	3291	3384	3454
30°	3237	3266	3406
35°	3044	3083	3302
40°	2697	2679	2784
45°	2015	2019	2076
50°	1418	1613	1374
55°	1047	1362	939
60°	654	1077	613
65°	534	853	429
70°	530	710	423
75°	657	522	546
80°	731	412	668
85°	729	766	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	5.0
10°-20°	354.0	14.1
20°-30°	524.3	20.9
30°-40°	587.3	23.4
40°-50°	431.5	17.2
50°-60°	241.2	9.6
60°-70°	134.4	5.4
70°-80°	79.0	3.2
80°-90°	29.0	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°	1002.6	40.0
0°-40°	1589.8	63.5
0°-60°	2262.6	90.3
0°-90°	2505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1297	1322	1293	1320	1334	123
15°	1241	1248	1250	1269	1270	350
25°	1108	1117	1140	1156	1163	514
35°	927	927	938	981	1005	574
45°	529	572	531	568	545	414
55°	223	272	290	290	200	199
65°	84	149	134	172	67	87
75°	63	89	50	101	52	63
85°	24	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°	1305.5	1305.5	1305.5	1305.5	1305.5
2.5°	1304.9	1316.8	1332.1	1333.9	1335.0
5°	1297.3	1321.5	1293.1	1319.7	1333.9
7.5°	1279.6	1294.3	1315.0	1288.4	1296.1
10°	1270.7	1274.3	1274.3	1307.3	1300.8
12.5°	1250.6	1274.3	1280.2	1273.7	1287.8
15°	1240.6	1248.3	1250.1	1268.9	1270.1
17.5°	1229.4	1227.6	1223.5	1237.1	1261.3
20°	1200.5	1194.0	1206.4	1222.9	1232.4
22.5°	1158.0	1159.8	1174.5	1188.1	1198.7
25°	1108.4	1117.3	1139.7	1155.6	1163.3
27.5°	1071.2	1084.2	1099.6	1118.4	1133.8
30°	1041.7	1040.5	1051.2	1078.3	1096.0
32.5°	984.5	988.6	999.8	1032.3	1057.1
35°	926.6	927.2	938.4	980.9	1005.1
37.5°	859.9	855.2	861.7	907.7	923.7
40°	767.9	769.0	762.5	795.0	792.6
42.5°	660.4	669.9	636.2	678.7	675.8
45°	529.4	572.5	530.6	568.4	545.4
47.5°	417.9	481.6	446.8	474.5	431.4
50°	338.8	404.3	385.4	397.8	328.2
52.5°	278.0	331.1	337.0	340.0	256.1
55°	223.1	271.5	290.4	289.8	200.1
57.5°	164.7	220.7	242.6	251.4	151.7
60°	121.6	183.6	200.1	219.6	113.9
62.5°	98.0	161.1	165.3	192.4	86.8
65°	83.8	148.7	134.0	171.8	67.3
67.5°	74.4	138.7	109.2	153.5	57.3
70°	67.3	123.4	90.3	137.5	53.7
72.5°	65.5	105.1	69.6	122.8	53.1
75°	63.2	89.1	50.2	100.9	52.5
77.5°	54.3	76.1	36.0	77.9	49.0
80°	47.2	60.8	26.6	58.4	43.1
82.5°	36.6	46.0	23.6	44.3	34.8
85°	23.6	34.8	24.8	31.9	24.2
87.5°	11.2	19.5	17.7	17.1	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)