

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: P292132

Luminaire Tested: **22GR-LD5-24-A-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292132
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-LD5-24-A-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2554.0 lumens
Efficiency: N/A
Efficacy: 138.0 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

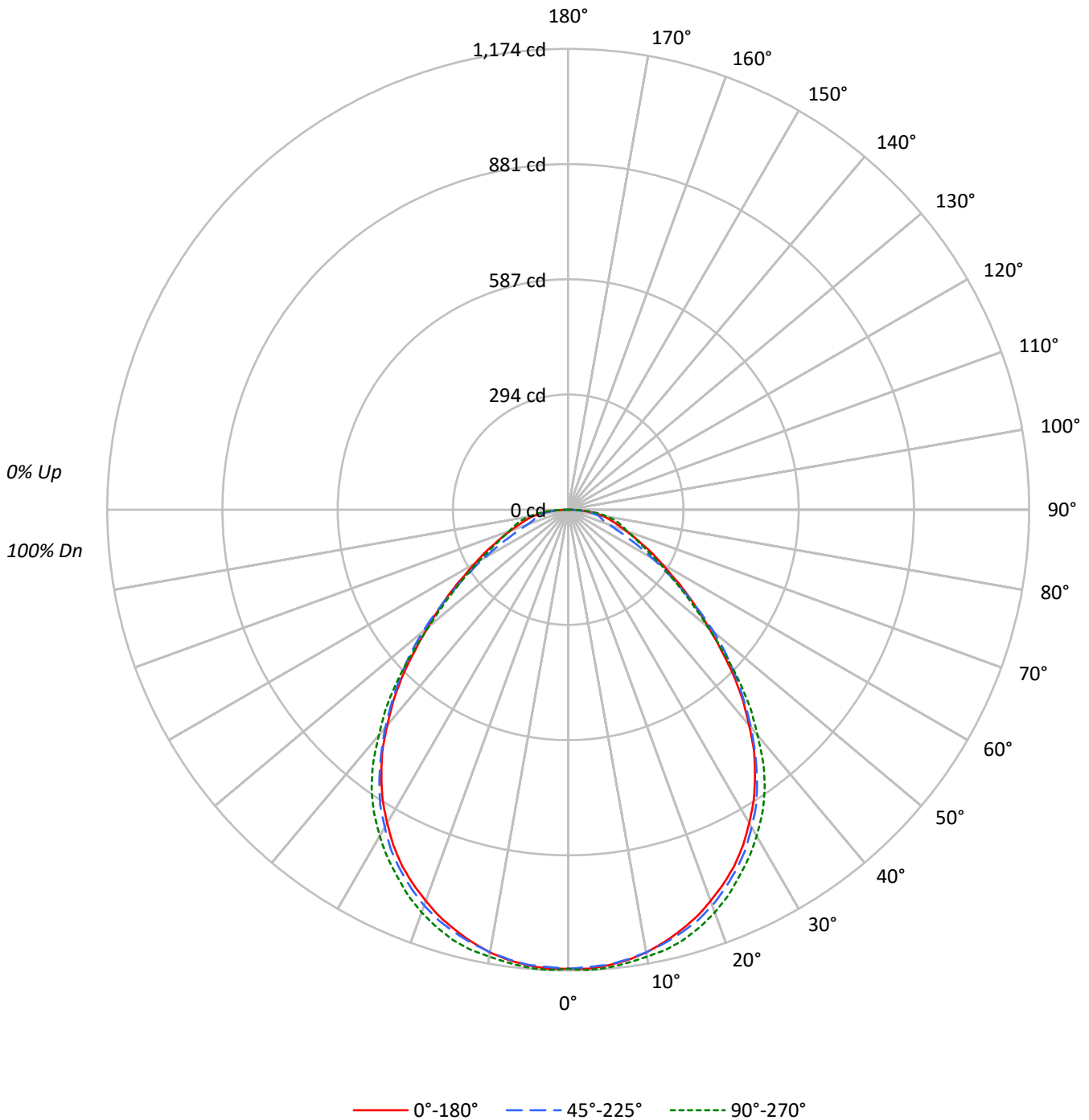
Input Watts (W): 18.507
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76					74				
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66					64				
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51					49				
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37					36				
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3147	3147	3147
5°	3148	3143	3163
10°	3130	3128	3159
15°	3090	3106	3161
20°	3036	3072	3127
25°	2972	3005	3060
30°	2864	2903	2982
35°	2724	2755	2866
40°	2518	2545	2635
45°	2262	2302	2339
50°	1955	2025	1936
55°	1706	1662	1640
60°	1478	1330	1420
65°	1321	1044	1275
70°	1225	865	1258
75°	1224	915	1396
80°	1354	1151	1574
85°	1414	1247	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	4.3
10°-20°	315.2	12.3
20°-30°	466.2	18.3
30°-40°	526.1	20.6
40°-50°	463.8	18.2
50°-60°	318.2	12.5
60°-70°	187.7	7.4
70°-80°	117.2	4.6
80°-90°	48.8	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°	892.2	34.9
0°-40°	1418.3	55.5
0°-60°	2200.3	86.1
0°-90°	2554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1166	1163	1164	1168	1171	111
15°	1109	1110	1115	1129	1135	313
25°	1001	1004	1012	1025	1031	460
35°	829	836	839	859	872	517
45°	594	597	605	609	614	457
55°	364	355	354	342	350	326
65°	207	182	164	190	200	209
75°	118	106	88	123	134	126
85°	46	43	40	53	58	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1169.6	1169.6	1169.6	1169.6	1169.6
2.5°	1170.2	1167.3	1166.1	1170.8	1173.8
5°	1165.5	1163.1	1163.7	1167.9	1170.8
7.5°	1157.2	1155.4	1155.4	1161.3	1164.3
10°	1145.3	1144.7	1144.7	1151.8	1156.0
12.5°	1128.6	1129.2	1131.6	1141.1	1148.2
15°	1109.0	1110.2	1115.0	1128.6	1134.6
17.5°	1087.6	1087.6	1097.1	1107.8	1115.0
20°	1060.3	1062.1	1072.8	1084.7	1091.8
22.5°	1032.3	1035.3	1044.2	1057.9	1064.4
25°	1000.9	1004.4	1012.1	1025.2	1030.6
27.5°	964.0	968.8	977.1	986.6	997.9
30°	921.8	928.9	934.3	947.4	959.8
32.5°	879.0	885.6	891.5	905.2	919.4
35°	829.1	836.2	838.6	858.8	872.5
37.5°	778.0	780.9	782.1	802.3	817.2
40°	716.8	722.7	724.5	740.5	750.0
42.5°	657.9	660.3	663.9	675.8	687.0
45°	594.3	597.3	605.0	608.6	614.5
47.5°	527.8	536.7	545.6	534.3	534.9
50°	467.1	474.3	483.8	462.4	462.4
52.5°	413.1	416.6	417.2	399.4	403.0
55°	363.7	354.8	354.2	342.3	349.5
57.5°	314.4	302.5	298.4	294.8	303.1
60°	274.6	253.2	247.2	252.6	263.9
62.5°	241.9	214.6	203.3	216.9	227.0
65°	207.4	182.5	164.0	189.6	200.3
67.5°	180.7	156.9	133.1	169.4	177.1
70°	155.7	137.3	110.0	153.9	159.9
72.5°	135.5	121.2	95.1	139.1	146.2
75°	117.7	105.8	88.0	123.0	134.3
77.5°	103.4	90.3	82.0	106.4	120.1
80°	87.4	74.3	74.3	89.1	101.6
82.5°	68.9	58.2	60.0	72.5	81.4
85°	45.8	42.8	40.4	52.9	57.6
87.5°	23.2	23.8	21.4	27.3	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)