

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: P294235

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-FGW080-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3349.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

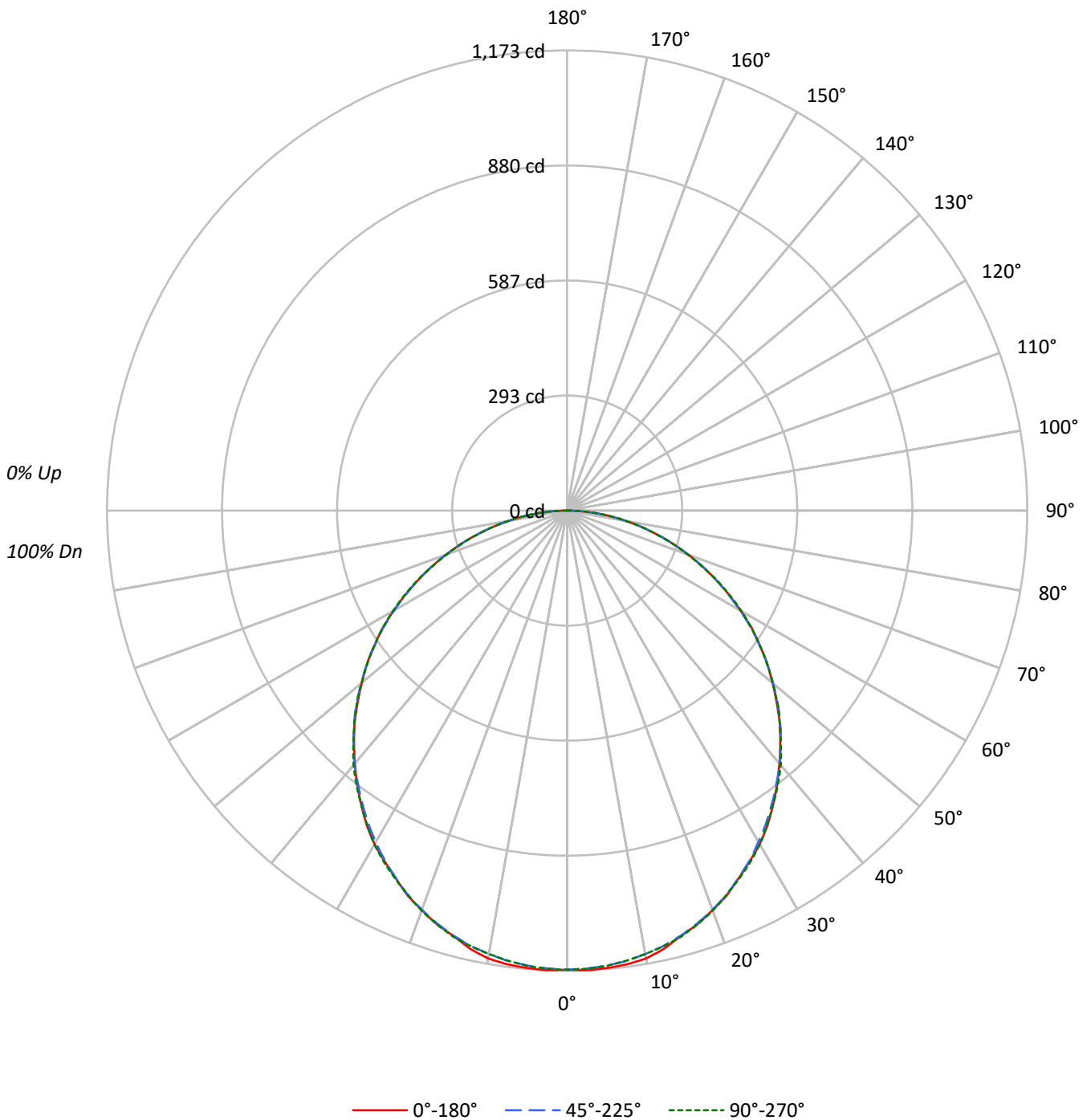
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1575	1575	1575
5°	1581	1572	1573
10°	1584	1568	1568
15°	1563	1562	1566
20°	1552	1550	1554
25°	1535	1534	1538
30°	1525	1515	1526
35°	1504	1496	1504
40°	1479	1480	1489
45°	1458	1462	1459
50°	1430	1435	1432
55°	1408	1404	1408
60°	1375	1371	1384
65°	1333	1338	1343
70°	1290	1296	1286
75°	1244	1244	1244
80°	1175	1175	1187
85°	1085	1098	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	3.3
10°-20°	316.4	9.4
20°-30°	476.8	14.2
30°-40°	571.1	17.1
40°-50°	591.1	17.7
50°-60°	536.0	16.0
60°-70°	415.6	12.4
70°-80°	252.7	7.5
80°-90°	78.6	2.3
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°	903.9	27.0
0°-40°	1475.0	44.0
0°-60°	2602.1	77.7
0°-90°	3349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1170	1163	1164	1163	1165	111
15°	1122	1123	1122	1118	1124	317
25°	1034	1034	1033	1036	1036	477
35°	915	909	911	915	915	573
45°	766	768	768	765	767	590
55°	600	597	599	601	600	537
65°	419	421	420	419	422	415
75°	239	238	239	238	239	253
85°	70	70	71	70	69	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.5	1170.5	1170.5	1170.5	1170.5
2.5°	1172.9	1168.1	1168.1	1166.6	1168.9
5°	1170.5	1163.4	1164.2	1162.6	1165.0
7.5°	1166.6	1157.1	1157.9	1156.3	1157.1
10°	1159.5	1148.4	1147.6	1146.8	1147.6
12.5°	1143.7	1137.3	1136.6	1135.0	1137.3
15°	1122.3	1123.1	1121.5	1117.6	1123.9
17.5°	1105.7	1105.0	1103.4	1099.4	1105.7
20°	1083.6	1084.4	1082.8	1081.3	1085.2
22.5°	1062.3	1059.9	1060.7	1059.9	1060.7
25°	1033.9	1033.9	1033.1	1036.2	1036.2
27.5°	1007.8	1004.7	1006.2	1009.4	1011.0
30°	981.7	973.8	975.4	978.6	982.5
32.5°	950.9	943.0	944.6	947.8	949.4
35°	915.4	909.1	910.7	914.6	915.4
37.5°	879.1	875.1	876.7	879.9	882.2
40°	841.9	840.4	842.7	841.9	847.5
42.5°	804.0	803.2	805.6	805.6	806.4
45°	766.1	767.7	768.5	765.3	766.9
47.5°	724.3	725.1	728.2	726.6	727.4
50°	683.2	682.4	685.6	686.4	684.0
52.5°	643.7	639.8	642.9	644.5	642.9
55°	600.3	597.1	598.7	601.1	600.3
57.5°	557.6	554.5	555.2	559.2	557.6
60°	511.0	510.2	509.4	512.6	514.2
62.5°	465.2	464.4	462.8	466.0	467.6
65°	418.6	421.0	420.2	418.6	421.8
67.5°	374.4	376.7	374.4	372.8	372.8
70°	327.8	330.1	329.4	327.8	327.0
72.5°	284.3	284.3	282.8	282.0	282.8
75°	239.3	238.5	239.3	238.5	239.3
77.5°	195.1	195.9	195.9	195.9	195.1
80°	151.6	151.6	151.6	152.4	153.2
82.5°	111.4	109.0	111.4	109.8	110.6
85°	70.3	69.5	71.1	70.3	68.7
87.5°	31.6	32.4	32.4	33.2	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)