

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: P293086

Luminaire Tested: **24GR-LD5-30-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-F1-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2861.0 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

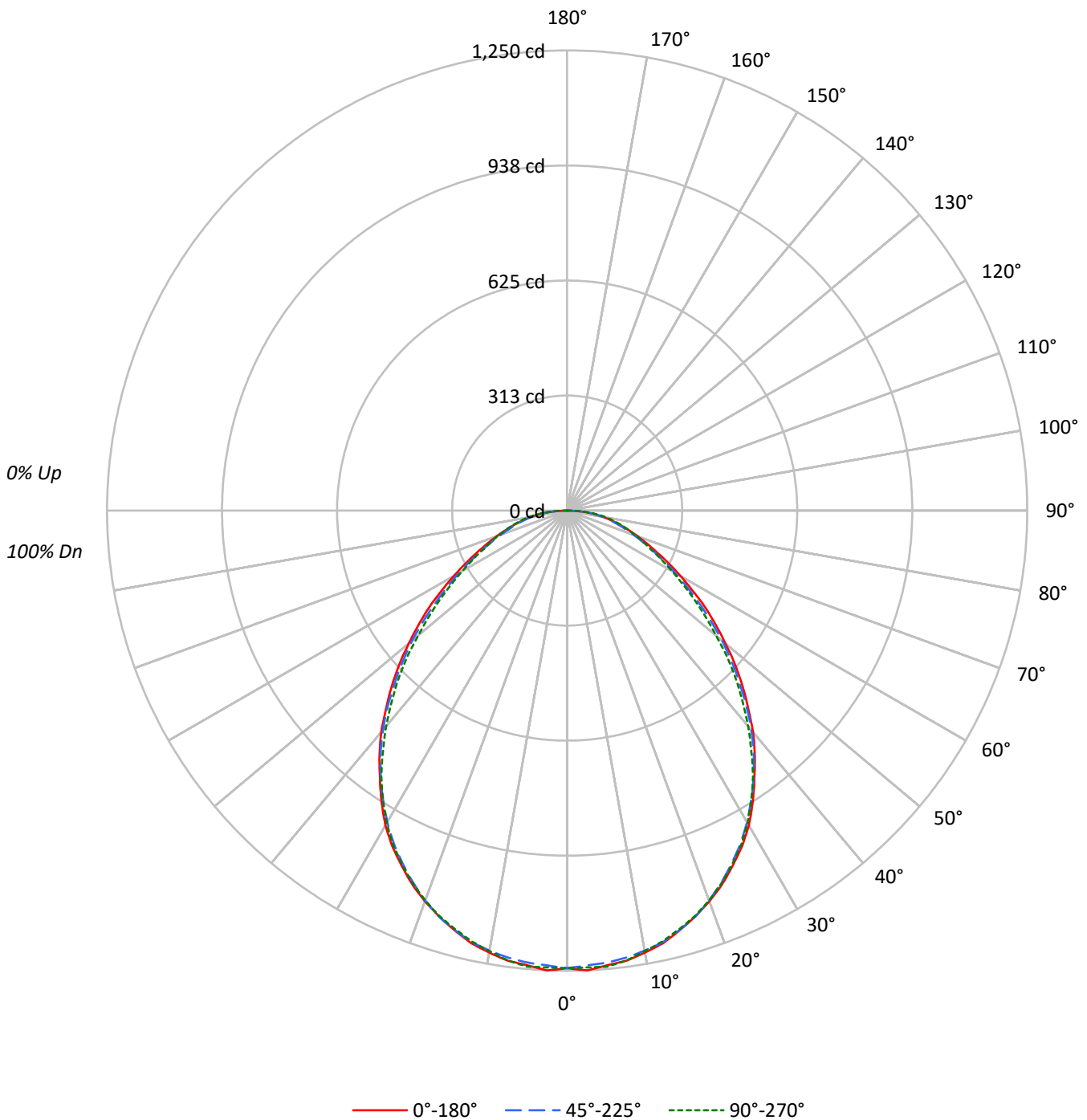
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1672	1672	1672
5°	1675	1665	1679
10°	1666	1658	1660
15°	1645	1643	1639
20°	1617	1614	1614
25°	1580	1571	1574
30°	1534	1518	1523
35°	1457	1450	1446
40°	1379	1367	1343
45°	1282	1260	1235
50°	1175	1149	1105
55°	1073	1024	990
60°	956	910	886
65°	861	815	804
70°	799	750	780
75°	764	730	791
80°	763	763	846
85°	792	801	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	4.1
10°-20°	332.1	11.6
20°-30°	487.5	17.0
30°-40°	551.1	19.3
40°-50°	509.3	17.8
50°-60°	392.4	13.7
60°-70°	259.8	9.1
70°-80°	154.7	5.4
80°-90°	56.7	2.0
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°	936.9	32.7
0°-40°	1488.0	52.0
0°-60°	2389.8	83.5
0°-90°	2861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1240	1240	1233	1233	1243	118
15°	1181	1178	1180	1179	1177	333
25°	1064	1061	1058	1057	1060	490
35°	887	886	883	879	880	555
45°	674	669	662	650	649	519
55°	457	448	437	425	422	408
65°	270	266	256	254	253	271
75°	147	143	140	147	152	157
85°	51	48	52	57	58	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.8	1242.8	1242.8	1242.8	1242.8
2.5°	1250.4	1243.9	1236.8	1236.8	1242.2
5°	1239.8	1239.8	1232.7	1233.3	1243.3
7.5°	1233.3	1229.8	1225.0	1225.0	1232.7
10°	1219.1	1216.2	1213.8	1212.7	1215.0
12.5°	1203.8	1199.1	1200.9	1199.1	1198.5
15°	1180.8	1178.4	1179.6	1179.0	1176.7
17.5°	1156.0	1154.8	1157.2	1153.1	1154.8
20°	1129.5	1125.9	1127.1	1124.7	1127.1
22.5°	1099.4	1097.0	1094.0	1091.1	1095.8
25°	1064.0	1061.0	1058.0	1056.9	1060.4
27.5°	1028.5	1023.8	1019.7	1018.5	1023.8
30°	987.2	981.9	977.2	976.0	980.2
32.5°	938.3	937.1	931.2	928.8	930.6
35°	886.9	885.7	882.8	878.7	880.4
37.5°	837.9	837.4	833.2	826.1	821.4
40°	785.4	781.3	778.3	768.3	764.8
42.5°	727.6	726.4	721.1	709.9	705.8
45°	673.9	669.2	662.1	650.3	649.1
47.5°	618.4	611.9	605.4	590.7	590.1
50°	561.2	556.5	548.8	534.0	528.1
52.5°	508.1	501.6	491.0	476.8	473.9
55°	457.3	447.9	436.7	424.9	421.9
57.5°	403.0	398.9	385.3	375.9	372.4
60°	355.2	351.7	338.1	329.3	329.3
62.5°	312.2	306.9	295.0	289.1	289.1
65°	270.3	266.1	256.1	253.7	252.6
67.5°	234.3	229.0	221.9	221.3	224.2
70°	203.0	196.5	190.6	196.5	198.3
72.5°	173.5	169.4	164.0	171.7	175.3
75°	146.9	143.4	140.4	146.9	152.2
77.5°	122.7	119.2	119.2	126.3	131.0
80°	98.5	96.2	98.5	104.4	109.2
82.5°	75.5	73.8	76.7	82.6	85.6
85°	51.3	48.4	51.9	57.2	57.8
87.5°	24.2	23.6	26.0	29.5	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)