

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: P293084

Luminaire Tested: **24GR-LD5-30-F1-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293084
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-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2762.0 lumens
Efficiency: N/A
Efficacy: 135.6 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

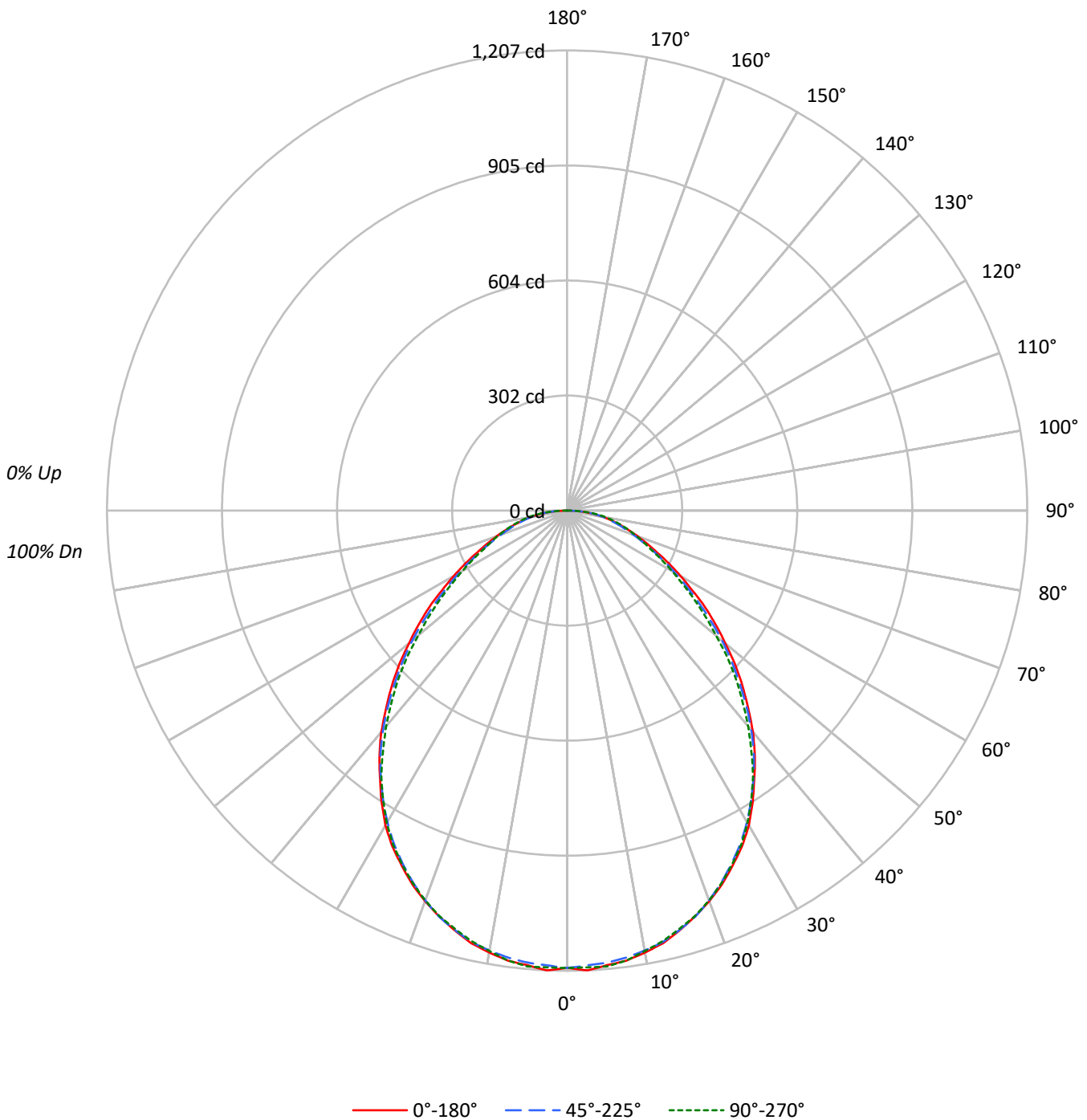
Input Watts (W): 20.367
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1614	1614	1614
5°	1617	1607	1621
10°	1608	1601	1603
15°	1588	1586	1582
20°	1561	1558	1558
25°	1525	1516	1520
30°	1481	1466	1470
35°	1406	1400	1396
40°	1332	1320	1297
45°	1238	1216	1192
50°	1134	1109	1067
55°	1036	989	955
60°	923	878	855
65°	831	787	776
70°	771	724	753
75°	738	705	764
80°	737	737	817
85°	766	773	861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	4.1
10°-20°	320.6	11.6
20°-30°	470.6	17.0
30°-40°	532.0	19.3
40°-50°	491.7	17.8
50°-60°	378.8	13.7
60°-70°	250.8	9.1
70°-80°	149.3	5.4
80°-90°	54.7	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°	904.5	32.7
0°-40°	1436.6	52.0
0°-60°	2307.1	83.5
0°-90°	2762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1200	1200	1200	1200	1200	
5°	1197	1197	1190	1191	1200	114
15°	1140	1138	1139	1138	1136	321
25°	1027	1024	1021	1020	1024	473
35°	856	855	852	848	850	536
45°	651	646	639	628	627	501
55°	442	432	422	410	407	394
65°	261	257	247	245	244	262
75°	142	138	136	142	147	151
85°	50	47	50	55	56	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1199.7	1199.7	1199.7	1199.7	1199.7
2.5°	1207.2	1200.9	1194.1	1194.1	1199.2
5°	1196.9	1196.9	1190.1	1190.6	1200.3
7.5°	1190.6	1187.2	1182.7	1182.7	1190.1
10°	1177.0	1174.1	1171.8	1170.7	1173.0
12.5°	1162.1	1157.6	1159.3	1157.6	1157.0
15°	1139.9	1137.7	1138.8	1138.2	1135.9
17.5°	1116.0	1114.9	1117.1	1113.2	1114.9
20°	1090.4	1087.0	1088.1	1085.8	1088.1
22.5°	1061.3	1059.0	1056.2	1053.3	1057.9
25°	1027.1	1024.3	1021.4	1020.3	1023.7
27.5°	993.0	988.4	984.4	983.3	988.4
30°	953.1	947.9	943.4	942.3	946.2
32.5°	905.8	904.7	899.0	896.7	898.4
35°	856.2	855.1	852.2	848.3	850.0
37.5°	808.9	808.4	804.4	797.6	793.0
40°	758.2	754.3	751.4	741.7	738.3
42.5°	702.4	701.3	696.1	685.3	681.3
45°	650.6	646.0	639.2	627.8	626.6
47.5°	597.0	590.8	584.5	570.3	569.7
50°	541.8	537.2	529.8	515.6	509.9
52.5°	490.5	484.2	474.0	460.3	457.5
55°	441.5	432.4	421.6	410.2	407.3
57.5°	389.1	385.1	372.0	362.9	359.5
60°	342.9	339.5	326.4	317.9	317.9
62.5°	301.4	296.2	284.8	279.1	279.1
65°	260.9	256.9	247.2	245.0	243.8
67.5°	226.2	221.0	214.2	213.6	216.5
70°	196.0	189.7	184.0	189.7	191.4
72.5°	167.5	163.5	158.4	165.8	169.2
75°	141.9	138.4	135.6	141.9	147.0
77.5°	118.5	115.1	115.1	121.9	126.5
80°	95.1	92.9	95.1	100.8	105.4
82.5°	72.9	71.2	74.1	79.8	82.6
85°	49.6	46.7	50.1	55.3	55.8
87.5°	23.4	22.8	25.1	28.5	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)