

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: P293338

Luminaire Tested: **24GR-LD5-30-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-F125-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 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): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

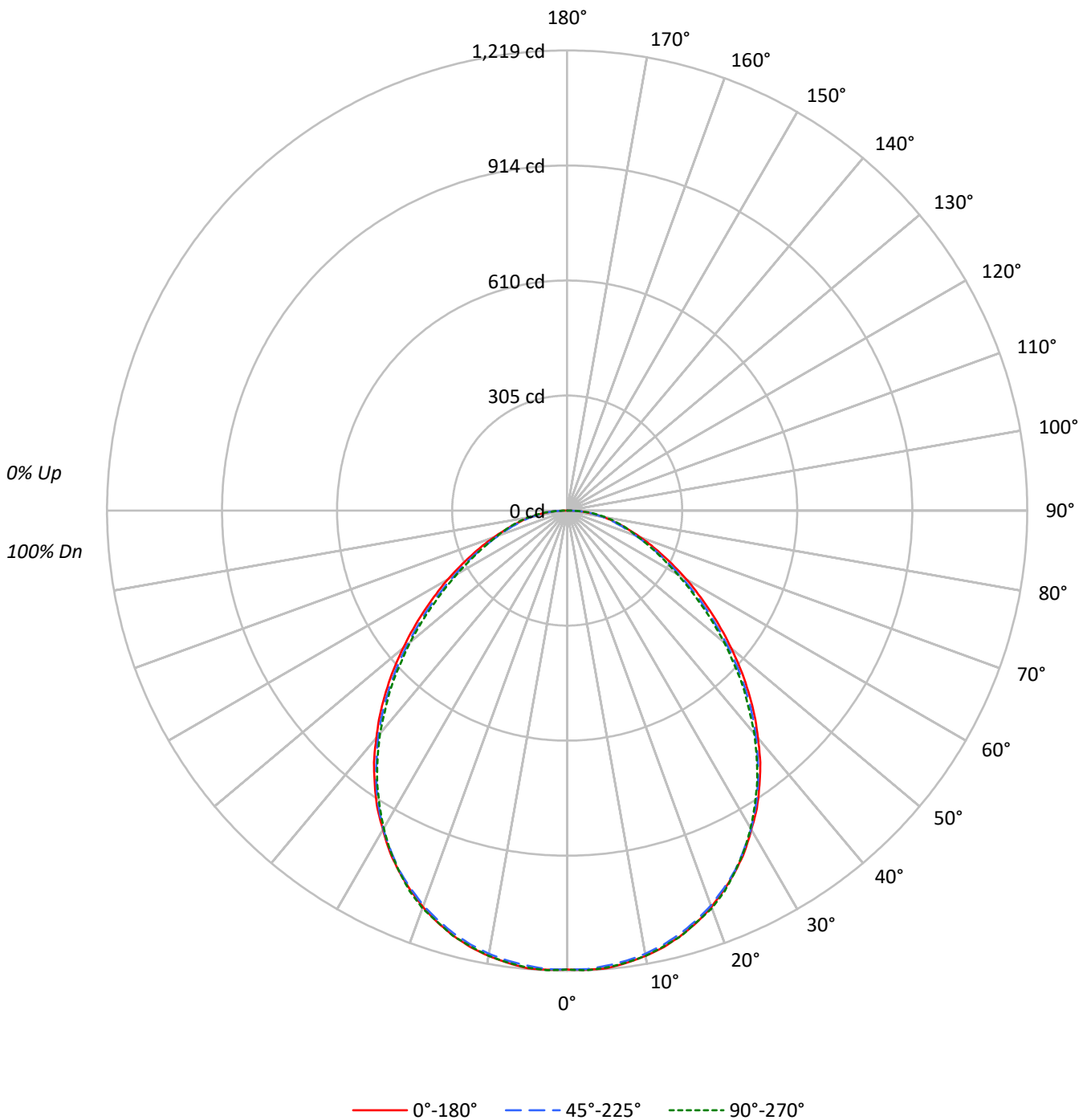
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1636	1636	1636
5°	1643	1634	1641
10°	1637	1629	1636
15°	1624	1615	1625
20°	1600	1594	1605
25°	1565	1561	1565
30°	1516	1513	1510
35°	1459	1448	1442
40°	1381	1365	1354
45°	1292	1268	1253
50°	1187	1155	1135
55°	1083	1043	1012
60°	983	930	906
65°	886	836	821
70°	811	758	779
75°	758	723	777
80°	752	738	810
85°	766	773	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	4.0
10°-20°	327.2	11.4
20°-30°	483.3	16.9
30°-40°	549.5	19.2
40°-50°	513.1	17.9
50°-60°	399.1	13.9
60°-70°	264.8	9.3
70°-80°	153.2	5.4
80°-90°	55.7	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°	925.6	32.4
0°-40°	1475.0	51.6
0°-60°	2387.2	83.4
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°	1216	1216	1216	1216	1216	
5°	1217	1211	1210	1212	1215	115
15°	1166	1160	1160	1159	1167	328
25°	1054	1050	1052	1050	1054	485
35°	888	884	881	875	878	554
45°	679	674	666	658	658	523
55°	462	455	444	433	432	414
65°	278	270	262	258	258	278
75°	146	142	139	145	149	156
85°	50	49	50	57	57	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1215.9	1215.9	1215.9	1215.9	1215.9
2.5°	1217.7	1214.1	1215.9	1214.6	1218.6
5°	1216.8	1210.6	1210.1	1212.3	1215.0
7.5°	1208.3	1201.6	1203.0	1203.0	1207.4
10°	1198.0	1191.3	1192.2	1192.7	1197.6
12.5°	1184.2	1177.5	1177.9	1177.5	1182.4
15°	1165.8	1160.0	1159.6	1159.1	1166.7
17.5°	1143.5	1135.4	1138.1	1138.6	1142.6
20°	1117.5	1111.3	1113.1	1112.6	1121.1
22.5°	1086.7	1082.2	1083.6	1082.7	1090.7
25°	1054.5	1050.0	1051.8	1049.6	1054.0
27.5°	1018.3	1015.1	1013.3	1012.0	1015.1
30°	975.8	974.0	974.0	968.2	971.8
32.5°	935.5	929.7	929.7	927.5	925.2
35°	888.1	883.7	881.4	875.2	877.8
37.5°	840.7	830.4	829.5	824.6	824.6
40°	786.2	780.4	777.2	771.9	771.0
42.5°	734.3	728.5	723.1	714.2	712.4
45°	678.8	673.5	666.3	657.8	658.3
47.5°	623.8	616.2	609.5	599.2	597.9
50°	567.0	561.7	551.8	542.9	542.4
52.5°	513.8	505.3	496.4	485.7	485.7
55°	461.5	454.8	444.5	432.9	431.5
57.5°	411.4	405.2	393.5	385.0	382.8
60°	365.4	356.4	345.7	338.5	336.7
62.5°	319.3	311.2	303.2	296.0	295.6
65°	278.2	269.7	262.5	257.6	258.0
67.5°	241.0	233.9	225.8	224.5	224.9
70°	206.2	198.6	192.7	195.9	198.1
72.5°	173.1	169.0	165.0	169.5	172.6
75°	145.8	142.2	139.1	145.3	149.4
77.5°	120.7	118.1	117.6	123.0	126.6
80°	97.0	93.9	95.3	101.5	104.6
82.5°	73.8	71.6	72.0	79.6	81.8
85°	49.6	48.7	50.1	56.8	57.2
87.5°	26.4	26.4	27.3	31.3	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)