

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: P292909

Luminaire Tested: **24GR-LD5-30-F1-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292909
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-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2880.0 lumens
Efficiency: N/A
Efficacy: 144.0 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

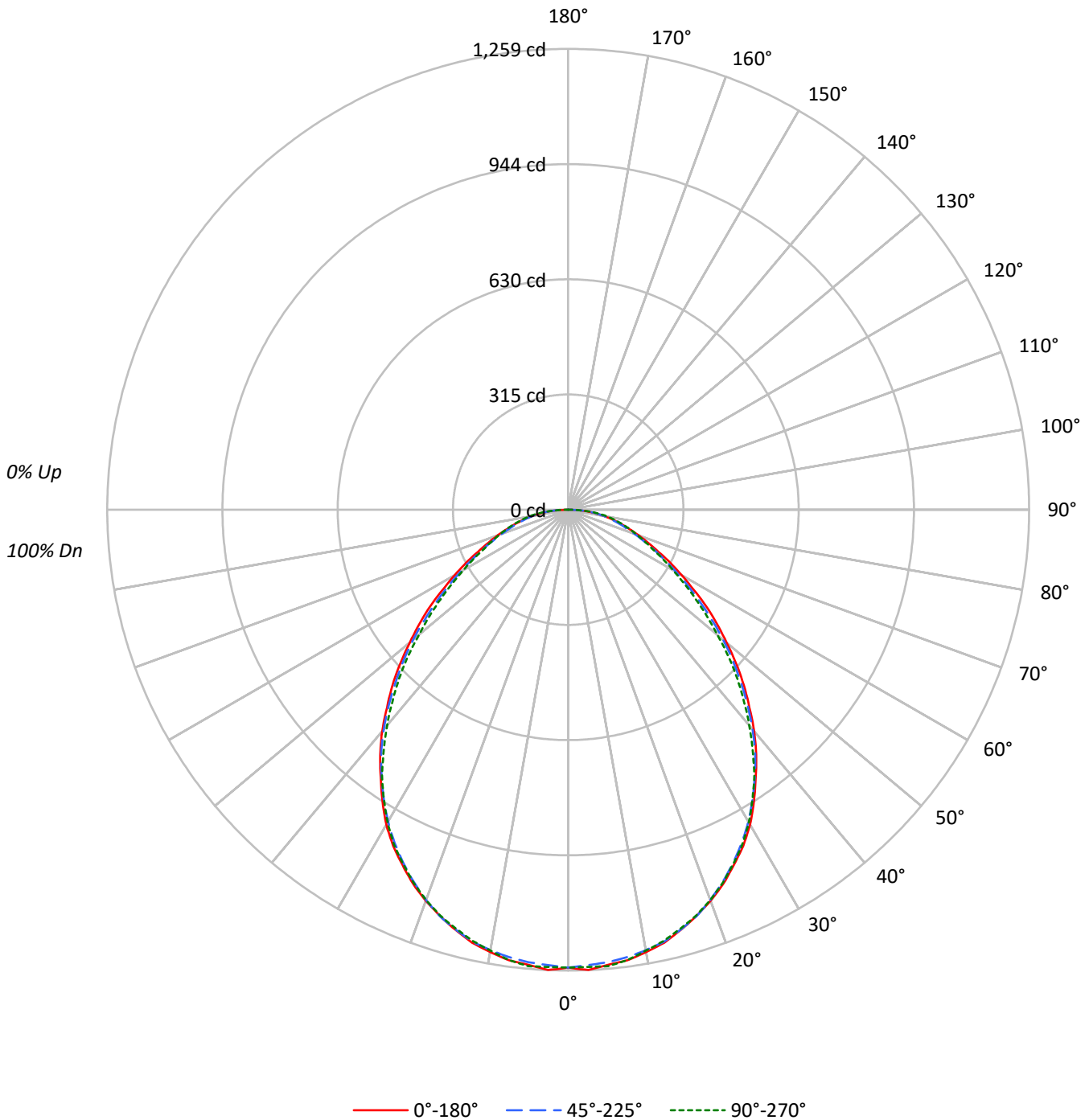
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1683	1683	1683
5°	1686	1676	1690
10°	1677	1669	1671
15°	1656	1654	1650
20°	1628	1625	1625
25°	1590	1581	1585
30°	1544	1528	1533
35°	1466	1460	1456
40°	1389	1376	1352
45°	1291	1268	1243
50°	1182	1156	1113
55°	1080	1031	996
60°	962	916	892
65°	866	821	809
70°	804	755	785
75°	769	735	797
80°	769	769	852
85°	798	807	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	4.1
10°-20°	334.3	11.6
20°-30°	490.7	17.0
30°-40°	554.8	19.3
40°-50°	512.7	17.8
50°-60°	395.0	13.7
60°-70°	261.6	9.1
70°-80°	155.7	5.4
80°-90°	57.0	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°	943.2	32.7
0°-40°	1497.9	52.0
0°-60°	2405.7	83.5
0°-90°	2880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1248	1248	1241	1242	1252	119
15°	1189	1186	1187	1187	1184	335
25°	1071	1068	1065	1064	1068	493
35°	893	892	889	884	886	559
45°	678	674	666	655	653	523
55°	460	451	440	428	425	411
65°	272	268	258	255	254	273
75°	148	144	141	148	153	158
85°	52	49	52	58	58	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.0	1251.0	1251.0	1251.0	1251.0
2.5°	1258.7	1252.2	1245.1	1245.1	1250.4
5°	1248.0	1248.0	1240.9	1241.5	1251.6
7.5°	1241.5	1237.9	1233.2	1233.2	1240.9
10°	1227.2	1224.3	1221.9	1220.7	1223.1
12.5°	1211.8	1207.0	1208.8	1207.0	1206.5
15°	1188.6	1186.3	1187.4	1186.8	1184.5
17.5°	1163.7	1162.5	1164.9	1160.7	1162.5
20°	1137.0	1133.4	1134.6	1132.2	1134.6
22.5°	1106.7	1104.3	1101.3	1098.3	1103.1
25°	1071.0	1068.0	1065.1	1063.9	1067.5
27.5°	1035.4	1030.6	1026.5	1025.3	1030.6
30°	993.8	988.4	983.7	982.5	986.7
32.5°	944.5	943.3	937.4	935.0	936.8
35°	892.8	891.6	888.7	884.5	886.3
37.5°	843.5	842.9	838.8	831.6	826.9
40°	790.6	786.5	783.5	773.4	769.8
42.5°	732.4	731.2	725.9	714.6	710.4
45°	678.4	673.6	666.5	654.6	653.4
47.5°	622.5	616.0	609.5	594.6	594.0
50°	564.9	560.2	552.4	537.6	531.6
52.5°	511.5	504.9	494.2	480.0	477.0
55°	460.4	450.9	439.6	427.7	424.7
57.5°	405.7	401.6	387.9	378.4	374.8
60°	357.6	354.0	340.4	331.5	331.5
62.5°	314.2	308.9	297.0	291.1	291.1
65°	272.1	267.9	257.8	255.4	254.2
67.5°	235.8	230.5	223.4	222.8	225.7
70°	204.3	197.8	191.9	197.8	199.6
72.5°	174.6	170.5	165.1	172.9	176.4
75°	147.9	144.3	141.4	147.9	153.3
77.5°	123.6	120.0	120.0	127.1	131.9
80°	99.2	96.8	99.2	105.1	109.9
82.5°	76.0	74.3	77.2	83.2	86.1
85°	51.7	48.7	52.3	57.6	58.2
87.5°	24.4	23.8	26.1	29.7	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)