

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: P293588

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2794.0 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

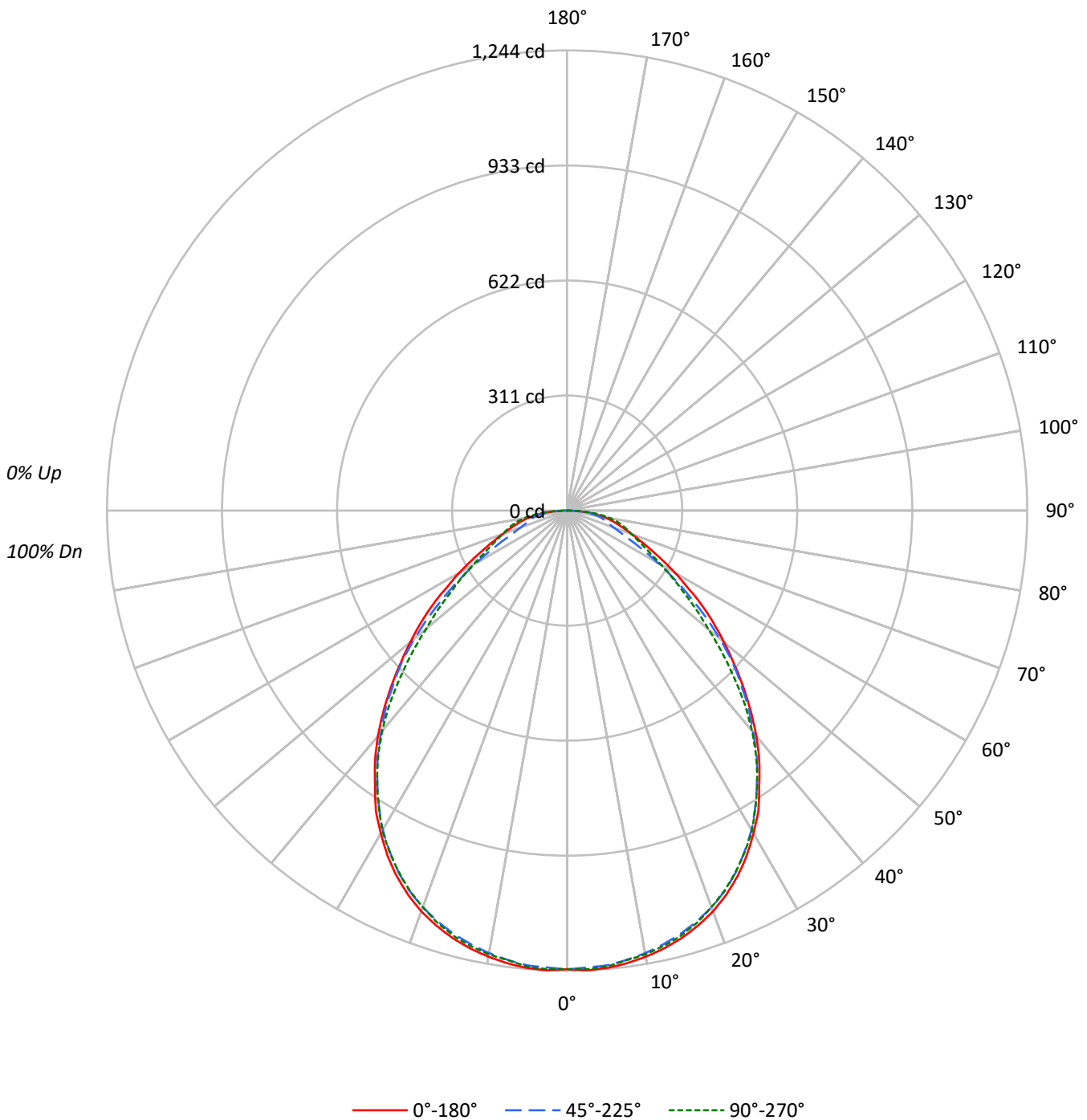
Input Watts (W): 20.367
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1668	1668	1668
5°	1676	1667	1671
10°	1673	1659	1664
15°	1667	1650	1657
20°	1651	1634	1633
25°	1619	1601	1600
30°	1565	1549	1552
35°	1487	1470	1472
40°	1398	1374	1365
45°	1281	1264	1214
50°	1158	1127	1042
55°	1040	947	898
60°	911	762	790
65°	794	599	727
70°	727	523	727
75°	727	556	801
80°	790	656	913
85°	866	739	980



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	4.2
10°-20°	335.0	12.0
20°-30°	496.8	17.8
30°-40°	560.4	20.1
40°-50°	507.6	18.2
50°-60°	366.2	13.1
60°-70°	218.6	7.8
70°-80°	135.1	4.8
80°-90°	56.9	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°	949.2	34.0
0°-40°	1509.6	54.0
0°-60°	2383.3	85.3
0°-90°	2794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2794.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1241	1239	1234	1233	1237	118
15°	1196	1189	1184	1185	1190	337
25°	1090	1084	1079	1075	1078	501
35°	905	904	895	895	896	566
45°	673	669	664	648	638	519
55°	443	430	404	384	383	396
65°	250	220	188	214	228	251
75°	140	121	107	133	154	149
85°	56	49	48	63	64	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1239.7	1239.7	1239.7	1239.7	1239.7
2.5°	1244.0	1240.5	1236.2	1238.8	1241.0
5°	1241.0	1239.2	1234.1	1232.8	1237.1
7.5°	1234.5	1230.2	1225.4	1227.6	1225.9
10°	1224.6	1220.7	1214.6	1215.1	1218.1
12.5°	1212.5	1207.7	1201.2	1203.0	1205.6
15°	1196.5	1189.2	1184.4	1184.8	1189.6
17.5°	1176.2	1170.6	1164.6	1165.9	1168.0
20°	1152.9	1149.9	1141.3	1138.7	1140.8
22.5°	1123.6	1117.9	1113.2	1111.9	1112.3
25°	1090.3	1084.3	1078.7	1074.8	1077.8
27.5°	1051.5	1046.3	1039.0	1037.7	1040.2
30°	1007.4	1003.6	997.1	995.4	999.2
32.5°	962.6	956.1	947.0	947.0	947.9
35°	905.1	903.9	894.8	895.2	896.1
37.5°	853.3	847.3	842.1	836.9	839.5
40°	795.9	789.0	782.1	778.7	777.4
42.5°	734.2	729.0	726.0	713.5	710.5
45°	673.4	669.0	664.3	647.9	638.0
47.5°	611.2	610.3	606.5	577.5	567.6
50°	553.4	552.1	538.3	507.6	497.7
52.5°	498.5	489.9	471.8	441.6	439.8
55°	443.3	429.5	403.6	383.7	382.9
57.5°	385.0	368.6	342.3	331.5	337.1
60°	338.4	313.4	283.2	284.4	293.5
62.5°	290.1	262.0	232.2	245.2	256.0
65°	249.5	219.7	188.2	213.7	228.3
67.5°	214.1	186.5	156.3	190.4	204.6
70°	184.7	162.3	132.9	168.8	184.7
72.5°	161.4	140.7	117.8	151.5	170.1
75°	139.9	121.3	107.0	133.4	154.1
77.5°	121.3	103.2	96.7	117.8	138.1
80°	101.9	85.5	84.6	102.7	117.8
82.5°	79.4	68.2	68.2	85.9	95.0
85°	56.1	49.2	47.9	62.6	63.5
87.5°	28.9	27.6	25.0	32.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)