

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: P293597

Luminaire Tested: **24GR-LD5-34-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293597
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-LD5-34-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: 3200.0 lumens
Efficiency: N/A
Efficacy: 136.5 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

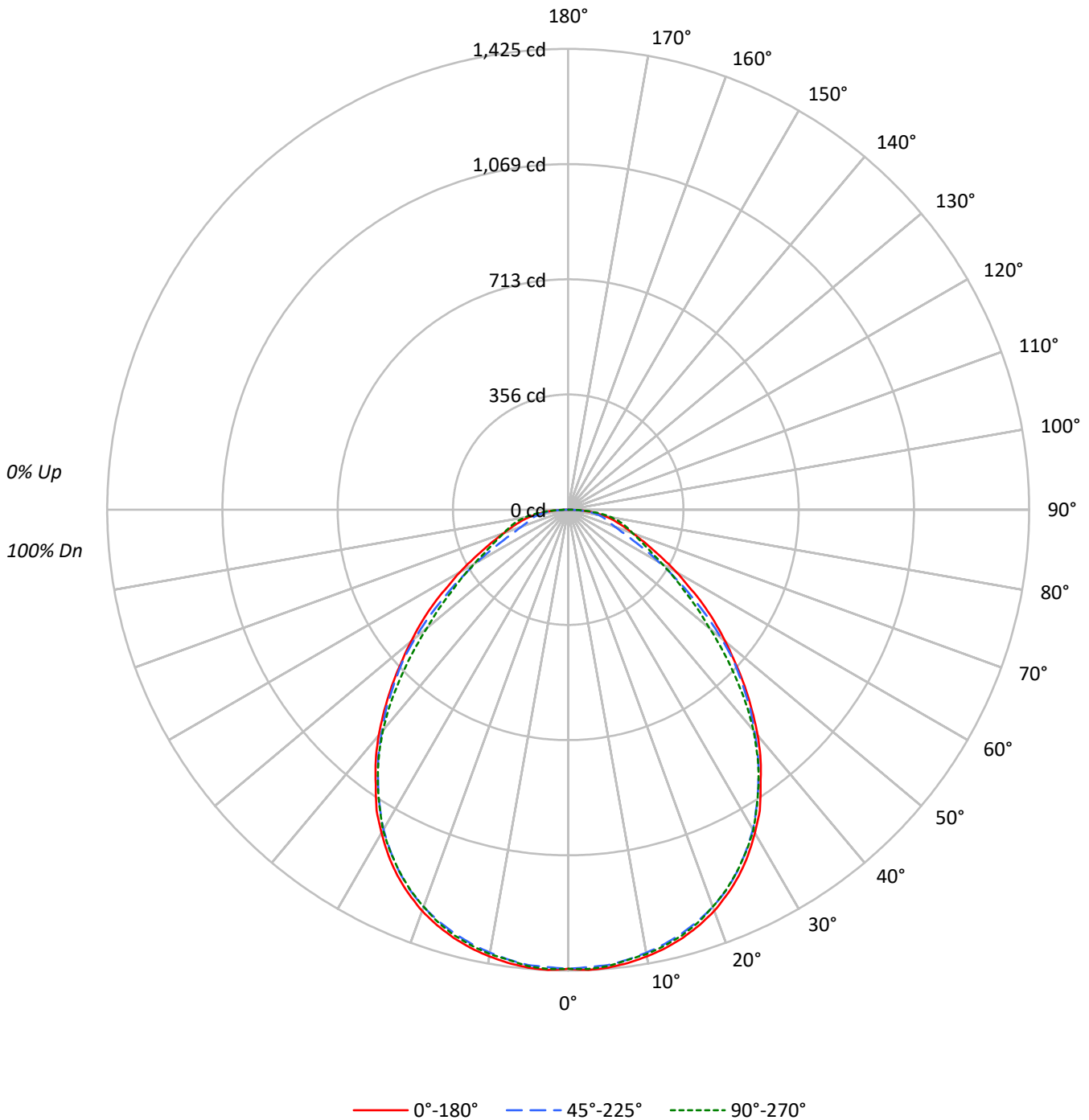
Input Watts (W): 23.436
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1910	1910	1910
5°	1920	1909	1914
10°	1916	1901	1906
15°	1909	1890	1898
20°	1891	1872	1871
25°	1854	1834	1833
30°	1793	1774	1778
35°	1703	1683	1686
40°	1601	1573	1564
45°	1467	1448	1390
50°	1327	1290	1193
55°	1191	1084	1029
60°	1043	873	905
65°	910	686	833
70°	832	599	832
75°	833	637	918
80°	904	751	1046
85°	993	848	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	4.2
10°-20°	383.7	12.0
20°-30°	568.9	17.8
30°-40°	641.8	20.1
40°-50°	581.3	18.2
50°-60°	419.4	13.1
60°-70°	250.4	7.8
70°-80°	154.8	4.8
80°-90°	65.2	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°	1087.1	34.0
0°-40°	1728.9	54.0
0°-60°	2729.6	85.3
0°-90°	3200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1420	1420	1420	1420	1420	
5°	1421	1419	1413	1412	1417	135
15°	1370	1362	1356	1357	1362	386
25°	1249	1242	1235	1231	1234	574
35°	1037	1035	1025	1025	1026	649
45°	771	766	761	742	731	594
55°	508	492	462	440	438	453
65°	286	252	216	245	262	287
75°	160	139	123	153	176	171
85°	64	56	55	72	73	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1419.8	1419.8	1419.8	1419.8	1419.8
2.5°	1424.7	1420.8	1415.8	1418.8	1421.3
5°	1421.3	1419.3	1413.4	1411.9	1416.8
7.5°	1413.9	1408.9	1403.5	1406.0	1404.0
10°	1402.5	1398.1	1391.1	1391.6	1395.1
12.5°	1388.7	1383.2	1375.8	1377.8	1380.7
15°	1370.4	1362.0	1356.5	1357.0	1362.5
17.5°	1347.1	1340.7	1333.8	1335.3	1337.7
20°	1320.4	1317.0	1307.1	1304.1	1306.6
22.5°	1286.8	1280.4	1275.0	1273.5	1274.0
25°	1248.8	1241.8	1235.4	1231.0	1234.4
27.5°	1204.3	1198.3	1189.9	1188.4	1191.4
30°	1153.8	1149.4	1142.0	1140.0	1144.4
32.5°	1102.4	1095.0	1084.6	1084.6	1085.6
35°	1036.7	1035.2	1024.8	1025.3	1026.3
37.5°	977.4	970.4	964.5	958.6	961.5
40°	911.6	903.7	895.8	891.8	890.3
42.5°	840.9	835.0	831.5	817.2	813.7
45°	771.2	766.3	760.8	742.0	730.7
47.5°	700.0	699.0	694.6	661.5	650.1
50°	633.8	632.3	616.5	581.4	570.0
52.5°	571.0	561.1	540.3	505.7	503.8
55°	507.7	491.9	462.2	439.5	438.5
57.5°	441.0	422.2	392.0	379.7	386.1
60°	387.6	358.9	324.3	325.8	336.2
62.5°	332.2	300.1	266.0	280.8	293.2
65°	285.7	251.6	215.5	244.7	261.5
67.5°	245.2	213.6	179.0	218.0	234.3
70°	211.6	185.9	152.3	193.3	211.6
72.5°	184.9	161.2	135.0	173.5	194.8
75°	160.2	138.9	122.6	152.8	176.5
77.5°	138.9	118.2	110.7	135.0	158.2
80°	116.7	97.9	96.9	117.7	135.0
82.5°	91.0	78.1	78.1	98.4	108.8
85°	64.3	56.4	54.9	71.7	72.7
87.5°	33.1	31.6	28.7	37.6	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)