

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: P293466

Luminaire Tested: **24GR-LD5-30-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293466
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-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3223.0 lumens
Efficiency: N/A
Efficacy: 154.0 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

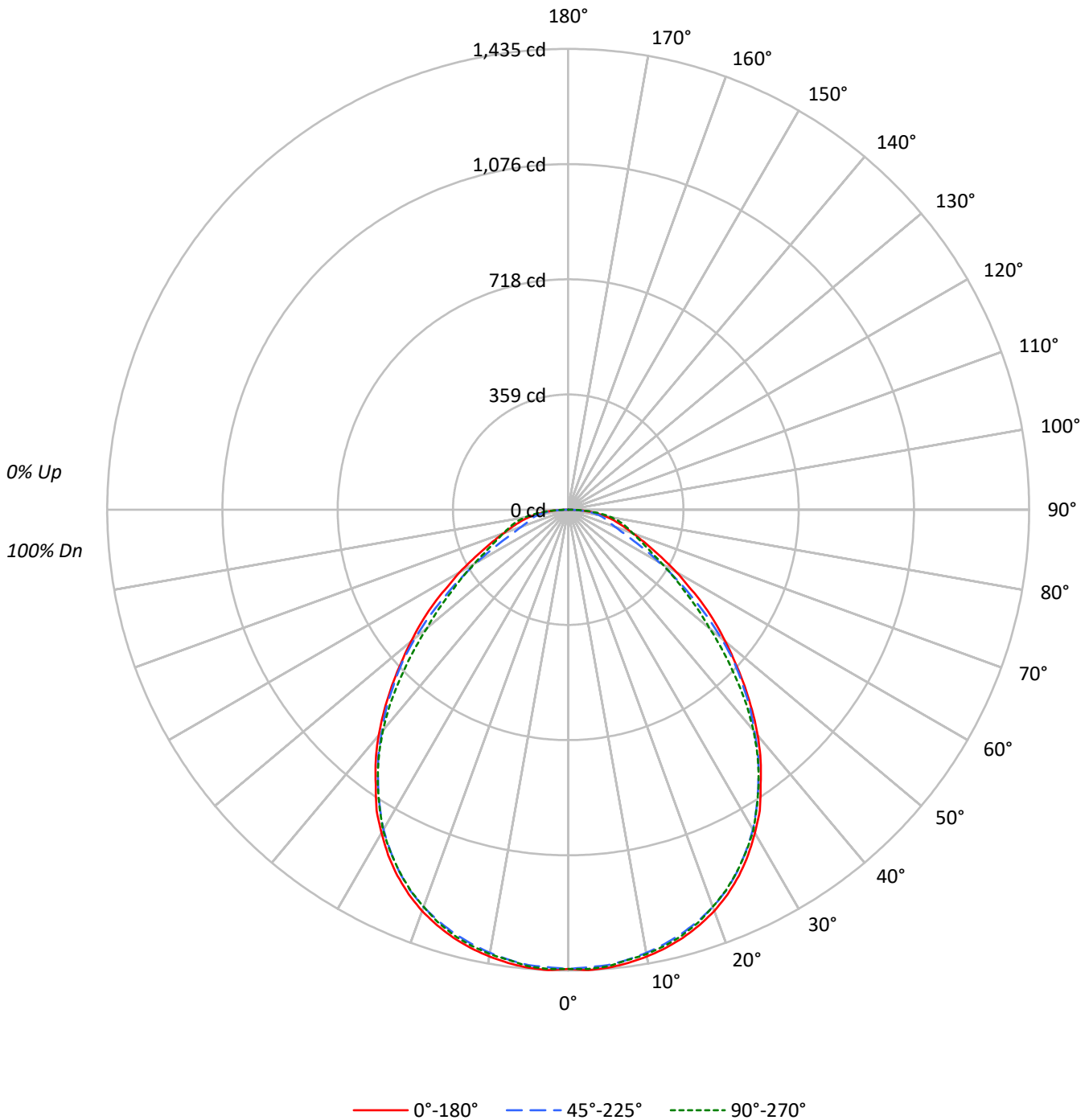
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1924	1924	1924
5°	1933	1923	1927
10°	1930	1914	1920
15°	1923	1903	1911
20°	1904	1885	1884
25°	1867	1847	1846
30°	1805	1787	1791
35°	1715	1695	1698
40°	1613	1585	1575
45°	1478	1458	1400
50°	1336	1300	1202
55°	1200	1092	1036
60°	1051	879	911
65°	916	691	839
70°	838	603	838
75°	839	642	924
80°	910	756	1053
85°	999	854	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	4.2
10°-20°	386.5	12.0
20°-30°	573.0	17.8
30°-40°	646.4	20.1
40°-50°	585.5	18.2
50°-60°	422.4	13.1
60°-70°	252.2	7.8
70°-80°	155.9	4.8
80°-90°	65.7	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°	1094.9	34.0
0°-40°	1741.4	54.0
0°-60°	2749.2	85.3
0°-90°	3223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3223.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1432	1430	1424	1422	1427	136
15°	1380	1372	1366	1367	1372	389
25°	1258	1251	1244	1240	1243	578
35°	1044	1043	1032	1033	1034	653
45°	777	772	766	747	736	599
55°	511	495	466	443	442	456
65°	288	253	217	246	263	290
75°	161	140	124	154	178	172
85°	65	57	55	72	73	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.0	1430.0	1430.0	1430.0	1430.0
2.5°	1435.0	1431.0	1426.0	1429.0	1431.5
5°	1431.5	1429.5	1423.5	1422.0	1427.0
7.5°	1424.0	1419.1	1413.6	1416.1	1414.1
10°	1412.6	1408.1	1401.1	1401.6	1405.1
12.5°	1398.6	1393.2	1385.7	1387.7	1390.7
15°	1380.2	1371.8	1366.3	1366.8	1372.2
17.5°	1356.8	1350.3	1343.4	1344.9	1347.4
20°	1329.9	1326.4	1316.5	1313.5	1316.0
22.5°	1296.1	1289.6	1284.1	1282.6	1283.1
25°	1257.7	1250.8	1244.3	1239.8	1243.3
27.5°	1212.9	1206.9	1198.5	1197.0	1200.0
30°	1162.1	1157.6	1150.2	1148.2	1152.7
32.5°	1110.3	1102.9	1092.4	1092.4	1093.4
35°	1044.1	1042.6	1032.2	1032.7	1033.7
37.5°	984.4	977.4	971.4	965.5	968.4
40°	918.2	910.2	902.2	898.2	896.7
42.5°	847.0	841.0	837.5	823.1	819.6
45°	776.7	771.8	766.3	747.4	735.9
47.5°	705.0	704.0	699.6	666.2	654.8
50°	638.3	636.8	620.9	585.5	574.1
52.5°	575.1	565.1	544.2	509.4	507.4
55°	511.4	495.4	465.5	442.6	441.6
57.5°	444.1	425.2	394.8	382.4	388.9
60°	390.4	361.5	326.6	328.1	338.6
62.5°	334.6	302.2	267.9	282.8	295.3
65°	287.8	253.4	217.1	246.5	263.4
67.5°	247.0	215.1	180.2	219.6	236.0
70°	213.1	187.2	153.4	194.7	213.1
72.5°	186.2	162.3	135.9	174.8	196.2
75°	161.3	139.9	123.5	153.9	177.8
77.5°	139.9	119.0	111.5	135.9	159.3
80°	117.5	98.6	97.6	118.5	135.9
82.5°	91.6	78.7	78.7	99.1	109.5
85°	64.7	56.8	55.3	72.2	73.2
87.5°	33.4	31.9	28.9	37.8	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)