

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: P293465

Luminaire Tested: **24GR-LD5-30-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293465
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3215.0 lumens
Efficiency: N/A
Efficacy: 156.4 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

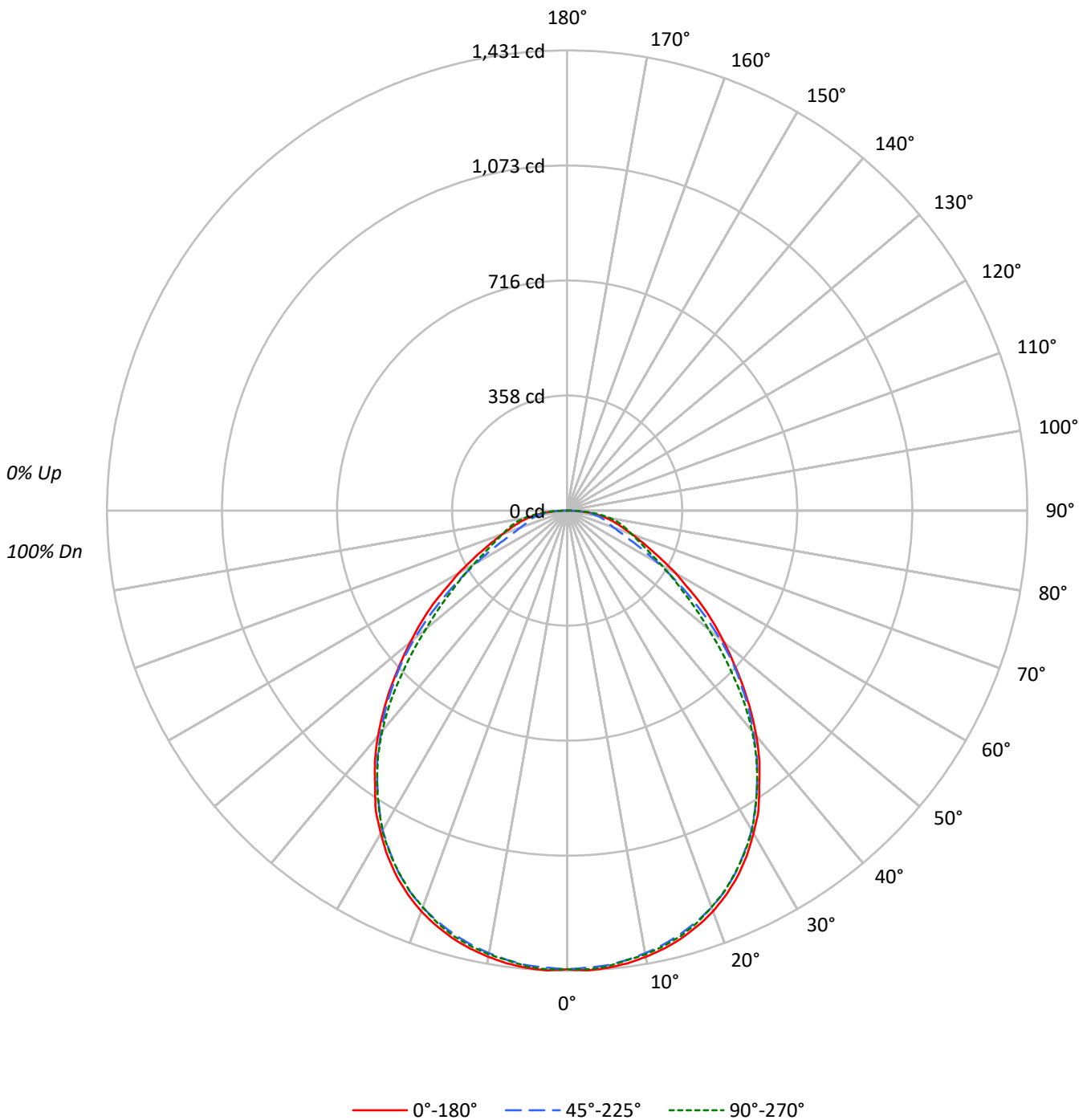
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1919	1919	1919
5°	1929	1918	1923
10°	1925	1910	1915
15°	1918	1898	1907
20°	1899	1880	1880
25°	1863	1843	1841
30°	1801	1782	1786
35°	1711	1691	1694
40°	1609	1581	1571
45°	1474	1455	1397
50°	1333	1297	1199
55°	1197	1089	1034
60°	1048	877	909
65°	914	690	836
70°	836	602	836
75°	836	640	922
80°	908	754	1051
85°	997	851	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	4.2
10°-20°	385.5	12.0
20°-30°	571.6	17.8
30°-40°	644.8	20.1
40°-50°	584.0	18.2
50°-60°	421.4	13.1
60°-70°	251.6	7.8
70°-80°	155.5	4.8
80°-90°	65.5	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°	1092.2	34.0
0°-40°	1737.0	54.0
0°-60°	2742.4	85.3
0°-90°	3215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3215.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1428	1426	1420	1418	1424	136
15°	1377	1368	1363	1363	1369	388
25°	1255	1248	1241	1237	1240	576
35°	1042	1040	1030	1030	1031	652
45°	775	770	764	746	734	597
55°	510	494	464	442	441	455
65°	287	253	217	246	263	289
75°	161	140	123	154	177	172
85°	65	57	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°	1426.5	1426.5	1426.5	1426.5	1426.5
2.5°	1431.4	1427.5	1422.5	1425.5	1427.9
5°	1427.9	1426.0	1420.0	1418.5	1423.5
7.5°	1420.5	1415.5	1410.1	1412.6	1410.6
10°	1409.1	1404.6	1397.7	1398.1	1401.6
12.5°	1395.2	1389.7	1382.3	1384.2	1387.2
15°	1376.8	1368.3	1362.9	1363.4	1368.8
17.5°	1353.4	1347.0	1340.0	1341.5	1344.0
20°	1326.6	1323.1	1313.2	1310.2	1312.7
22.5°	1292.9	1286.4	1280.9	1279.4	1279.9
25°	1254.6	1247.7	1241.2	1236.7	1240.2
27.5°	1209.9	1203.9	1195.5	1194.0	1197.0
30°	1159.2	1154.8	1147.3	1145.3	1149.8
32.5°	1107.6	1100.1	1089.7	1089.7	1090.7
35°	1041.5	1040.0	1029.6	1030.1	1031.1
37.5°	981.9	975.0	969.0	963.1	966.0
40°	915.9	907.9	900.0	896.0	894.5
42.5°	844.8	838.9	835.4	821.0	817.5
45°	774.8	769.9	764.4	745.5	734.1
47.5°	703.3	702.3	697.8	664.6	653.1
50°	636.7	635.3	619.4	584.1	572.7
52.5°	573.7	563.7	542.9	508.1	506.1
55°	510.1	494.2	464.4	441.5	440.6
57.5°	443.0	424.2	393.9	381.4	387.9
60°	389.4	360.6	325.8	327.3	337.7
62.5°	333.8	301.5	267.2	282.1	294.5
65°	287.1	252.8	216.6	245.9	262.7
67.5°	246.4	214.6	179.8	219.0	235.4
70°	212.6	186.8	153.0	194.2	212.6
72.5°	185.8	161.9	135.6	174.3	195.7
75°	160.9	139.6	123.2	153.5	177.3
77.5°	139.6	118.7	111.3	135.6	158.9
80°	117.2	98.3	97.3	118.2	135.6
82.5°	91.4	78.5	78.5	98.8	109.3
85°	64.6	56.6	55.1	72.0	73.0
87.5°	33.3	31.8	28.8	37.7	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)