

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: P293584

Luminaire Tested: **24GR-LD5-30-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293584
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2416.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

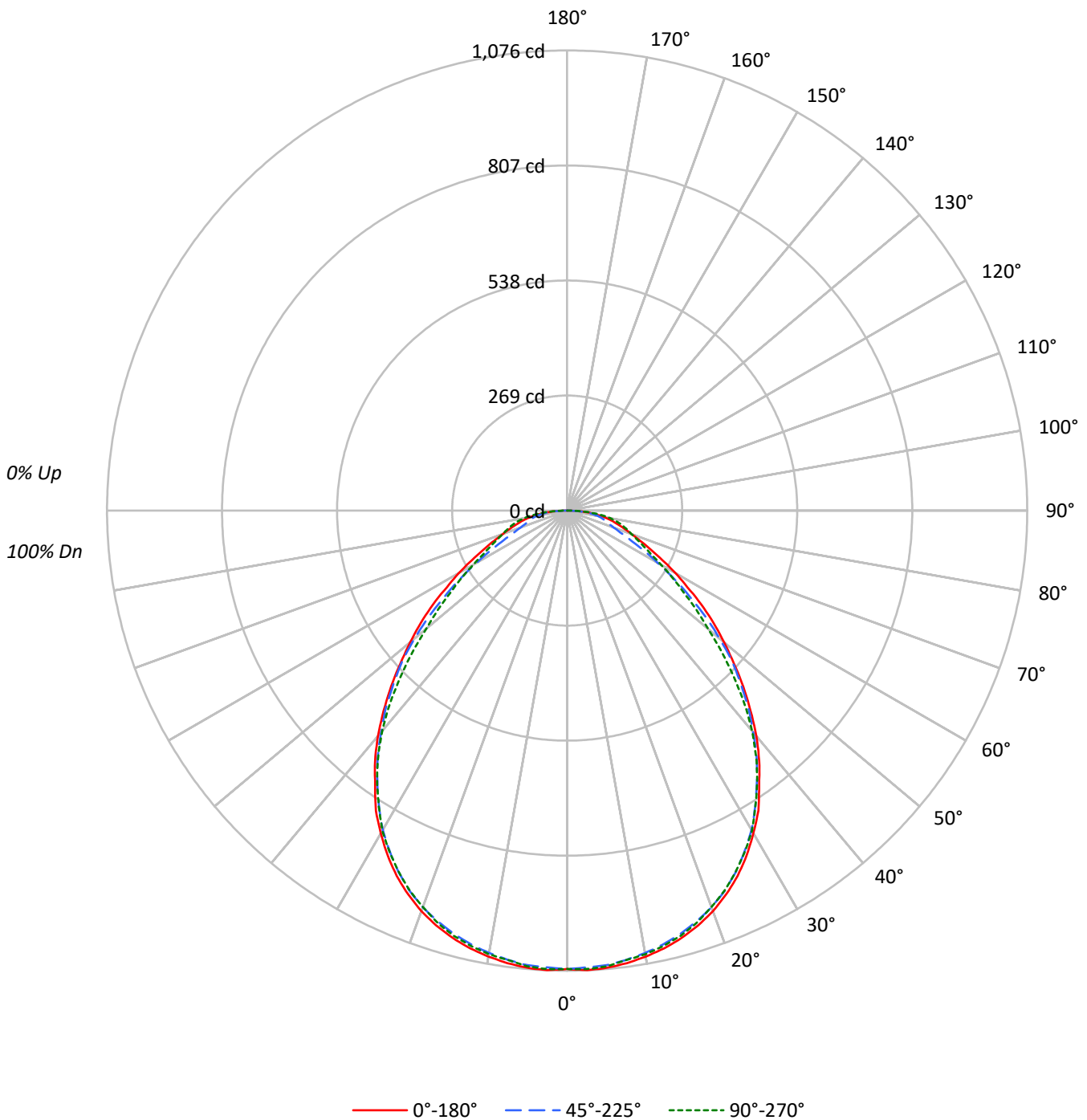
Input Watts (W): 19.902
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1442	1442	1442
5°	1449	1441	1445
10°	1447	1435	1439
15°	1441	1427	1433
20°	1427	1413	1413
25°	1400	1385	1384
30°	1353	1340	1342
35°	1286	1271	1273
40°	1209	1188	1181
45°	1108	1093	1050
50°	1002	974	901
55°	899	819	777
60°	787	659	683
65°	687	518	628
70°	628	452	628
75°	629	481	692
80°	683	567	790
85°	749	639	848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	4.2
10°-20°	289.7	12.0
20°-30°	429.6	17.8
30°-40°	484.6	20.1
40°-50°	438.9	18.2
50°-60°	316.6	13.1
60°-70°	189.1	7.8
70°-80°	116.8	4.8
80°-90°	49.2	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°	820.8	34.0
0°-40°	1305.3	54.0
0°-60°	2060.9	85.3
0°-90°	2416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1073	1072	1067	1066	1070	102
15°	1035	1028	1024	1024	1029	292
25°	943	938	933	929	932	433
35°	783	782	774	774	775	490
45°	582	578	574	560	552	449
55°	383	371	349	332	331	342
65°	216	190	163	185	197	217
75°	121	105	93	115	133	129
85°	48	42	41	54	55	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1072.0	1072.0	1072.0	1072.0	1072.0
2.5°	1075.7	1072.7	1069.0	1071.2	1073.1
5°	1073.1	1071.6	1067.1	1066.0	1069.7
7.5°	1067.5	1063.7	1059.6	1061.5	1060.0
10°	1058.9	1055.5	1050.3	1050.7	1053.3
12.5°	1048.4	1044.3	1038.7	1040.2	1042.5
15°	1034.6	1028.3	1024.2	1024.5	1028.7
17.5°	1017.1	1012.2	1007.0	1008.1	1010.0
20°	996.9	994.3	986.9	984.6	986.5
22.5°	971.5	966.7	962.6	961.5	961.8
25°	942.8	937.6	932.7	929.4	932.0
27.5°	909.2	904.7	898.4	897.3	899.5
30°	871.1	867.8	862.2	860.7	864.1
32.5°	832.3	826.7	818.9	818.9	819.6
35°	782.7	781.6	773.7	774.1	774.9
37.5°	737.9	732.7	728.2	723.7	726.0
40°	688.3	682.3	676.3	673.3	672.2
42.5°	634.9	630.4	627.8	617.0	614.4
45°	582.3	578.5	574.4	560.2	551.7
47.5°	528.5	527.8	524.4	499.4	490.8
50°	478.5	477.4	465.4	438.9	430.3
52.5°	431.1	423.6	408.0	381.8	380.3
55°	383.3	371.4	349.0	331.8	331.1
57.5°	332.9	318.7	296.0	286.6	291.5
60°	292.6	271.0	244.8	246.0	253.8
62.5°	250.8	226.6	200.8	212.0	221.3
65°	215.7	190.0	162.7	184.8	197.4
67.5°	185.1	161.2	135.1	164.6	176.9
70°	159.7	140.3	115.0	145.9	159.7
72.5°	139.6	121.7	101.9	131.0	147.1
75°	120.9	104.9	92.6	115.3	133.2
77.5°	104.9	89.2	83.6	101.9	119.4
80°	88.1	73.9	73.2	88.8	101.9
82.5°	68.7	59.0	59.0	74.3	82.1
85°	48.5	42.5	41.4	54.1	54.9
87.5°	25.0	23.9	21.6	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)