

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: P294097

Luminaire Tested: **24GR-LD5-34-A19/156-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-A19/156-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2662.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

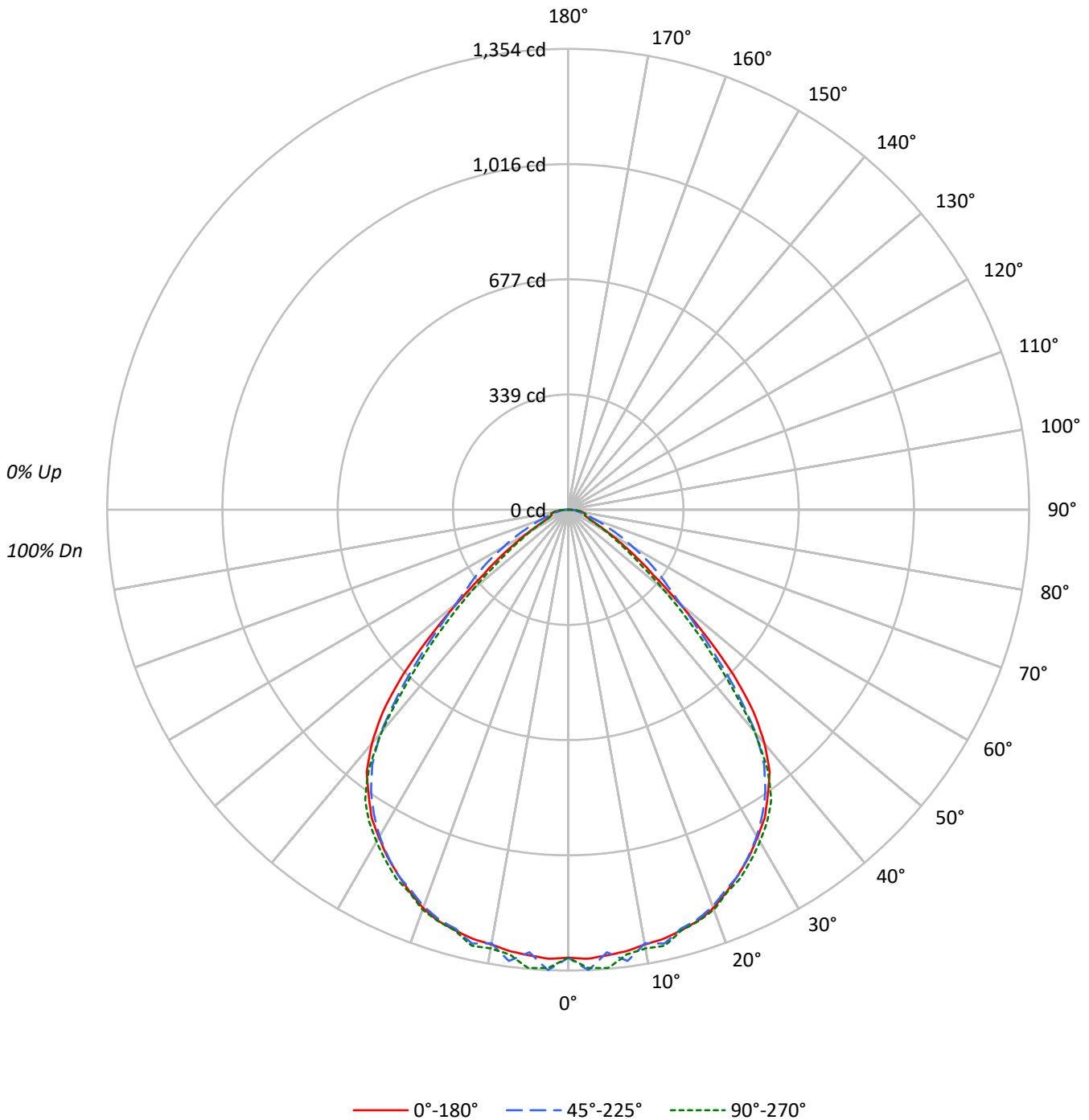
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96		97	95	93		93	92	90	88
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	77	72		79	75	71		77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64		72	67	63		70	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50		60	55	50		59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45		56	50	45		54	49	45	43
8	67	55	47	42	65	54	47	41	53	46	41		51	45	41		50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1771	1771	1771
5°	1775	1763	1826
10°	1772	1767	1788
15°	1782	1776	1784
20°	1784	1776	1791
25°	1756	1757	1775
30°	1727	1722	1749
35°	1678	1658	1708
40°	1576	1505	1497
45°	1306	1182	1121
50°	879	897	766
55°	580	752	502
60°	372	594	344
65°	239	453	233
70°	212	325	212
75°	273	258	276
80°	335	222	351
85°	389	330	409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	4.7
10°-20°	361.9	13.6
20°-30°	544.8	20.5
30°-40°	631.5	23.7
40°-50°	493.3	18.5
50°-60°	263.4	9.9
60°-70°	135.4	5.1
70°-80°	76.6	2.9
80°-90°	29.1	1.1
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°	1032.7	38.8
0°-40°	1664.2	62.5
0°-60°	2420.8	90.9
0°-90°	2662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1314	1351	1306	1342	1352	125
15°	1280	1288	1275	1283	1280	361
25°	1183	1179	1184	1182	1195	545
35°	1022	1017	1009	1029	1040	637
45°	687	687	621	616	589	517
55°	247	312	321	289	214	228
65°	75	157	142	156	73	83
75°	53	99	50	92	53	53
85°	25	33	21	33	26	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.3	1316.3	1316.3	1316.3	1316.3
2.5°	1320.6	1344.5	1353.9	1342.4	1347.5
5°	1314.1	1350.9	1305.6	1341.5	1351.8
7.5°	1308.2	1304.3	1337.2	1303.0	1317.6
10°	1297.0	1299.6	1293.2	1317.6	1309.0
12.5°	1291.9	1306.9	1305.6	1293.2	1312.0
15°	1279.5	1287.6	1275.2	1283.4	1280.4
17.5°	1267.1	1263.3	1262.0	1265.4	1268.4
20°	1245.7	1232.9	1240.6	1241.5	1250.9
22.5°	1215.0	1207.3	1209.0	1216.7	1217.5
25°	1182.9	1179.1	1183.8	1182.0	1195.3
27.5°	1149.6	1144.4	1147.4	1153.8	1162.0
30°	1111.5	1110.2	1108.1	1113.6	1126.0
32.5°	1073.9	1063.6	1061.9	1073.5	1087.6
35°	1021.7	1017.0	1009.3	1029.4	1039.7
37.5°	972.1	957.6	945.2	957.2	961.5
40°	897.3	886.2	857.1	858.4	852.4
42.5°	805.4	797.3	741.7	731.9	715.2
45°	686.6	687.0	621.2	615.6	589.1
47.5°	548.5	572.9	515.6	509.2	469.8
50°	419.8	463.8	428.4	418.1	365.9
52.5°	315.1	379.6	368.5	346.3	274.5
55°	247.1	312.5	320.6	289.0	214.2
57.5°	186.0	257.4	270.6	244.5	165.4
60°	138.1	216.7	220.6	210.3	127.8
62.5°	102.6	184.3	179.1	180.4	94.9
65°	75.2	156.9	142.4	156.5	73.1
67.5°	61.6	135.9	110.7	135.5	59.4
70°	53.9	120.6	82.5	119.3	53.9
72.5°	52.2	110.7	65.4	106.0	52.6
75°	52.6	98.8	49.6	92.3	53.0
77.5°	48.3	81.2	37.6	78.7	50.4
80°	43.2	61.6	28.6	62.4	45.3
82.5°	36.8	44.9	23.1	46.2	38.0
85°	25.2	32.9	21.4	32.9	26.5
87.5°	12.0	19.7	13.3	18.8	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)