

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: P294094

Luminaire Tested: **24GR-LD5-30-A19/156-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294094
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-LD5-30-A19/156-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2785.0 lumens
Efficiency: N/A
Efficacy: 135.5 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

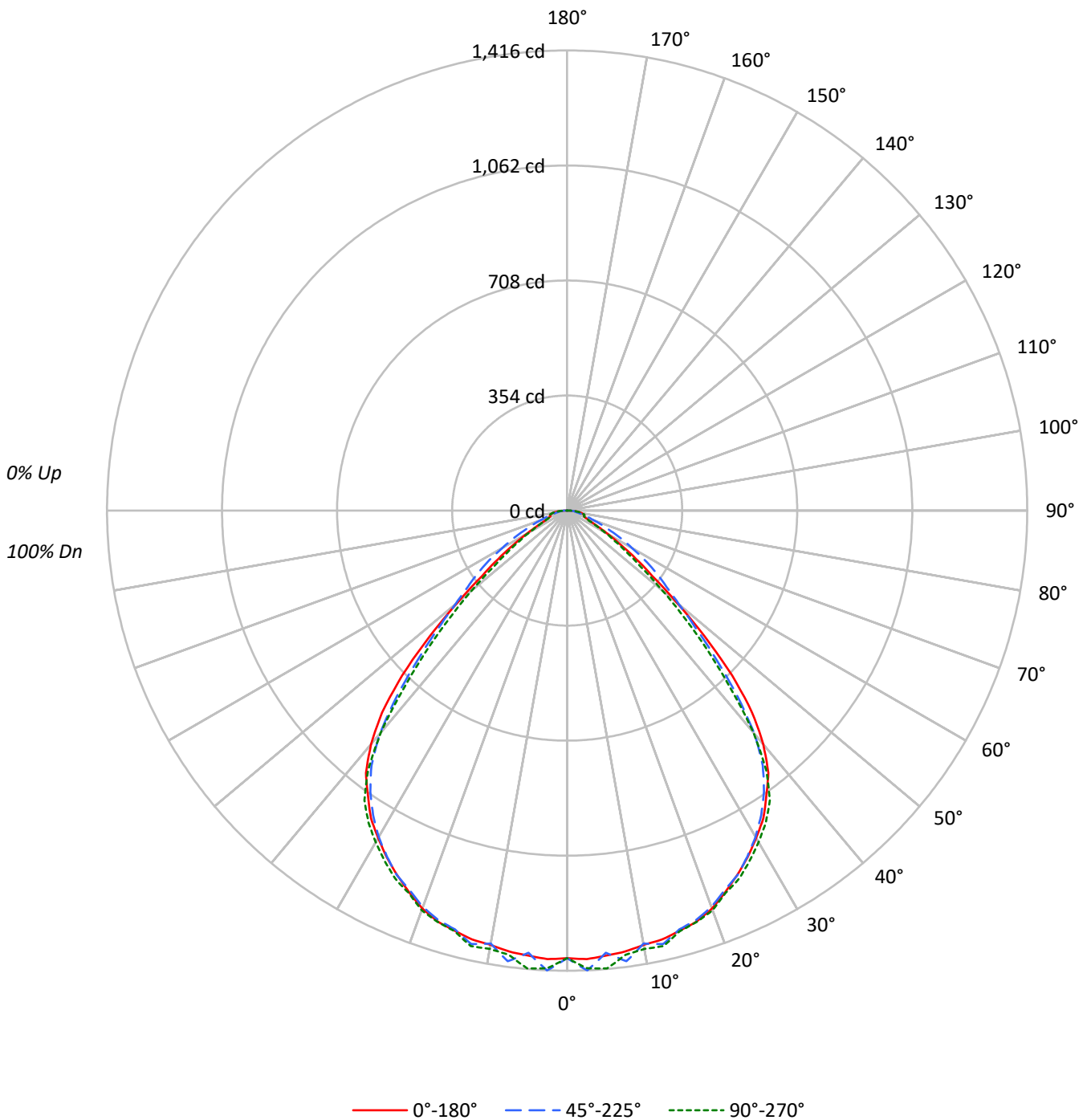
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1853	1853	1853
5°	1857	1845	1910
10°	1854	1849	1871
15°	1865	1858	1866
20°	1866	1858	1874
25°	1837	1839	1856
30°	1807	1801	1830
35°	1756	1735	1787
40°	1649	1575	1566
45°	1367	1237	1173
50°	919	938	801
55°	606	787	526
60°	389	621	360
65°	251	474	244
70°	222	339	222
75°	286	270	289
80°	350	232	367
85°	408	346	428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	4.7
10°-20°	378.6	13.6
20°-30°	570.0	20.5
30°-40°	660.6	23.7
40°-50°	516.1	18.5
50°-60°	275.6	9.9
60°-70°	141.7	5.1
70°-80°	80.2	2.9
80°-90°	30.5	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°	1080.4	38.8
0°-40°	1741.1	62.5
0°-60°	2532.7	90.9
0°-90°	2785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1377	1377	1377	1377	1377	
5°	1375	1413	1366	1404	1414	131
15°	1339	1347	1334	1343	1340	378
25°	1238	1234	1238	1237	1250	570
35°	1069	1064	1056	1077	1088	666
45°	718	719	650	644	616	541
55°	258	327	335	302	224	239
65°	79	164	149	164	76	87
75°	55	103	52	97	56	56
85°	26	34	22	34	28	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.1	1377.1	1377.1	1377.1	1377.1
2.5°	1381.6	1406.6	1416.5	1404.4	1409.8
5°	1374.9	1413.3	1365.9	1403.5	1414.2
7.5°	1368.6	1364.6	1399.0	1363.2	1378.4
10°	1357.0	1359.7	1353.0	1378.4	1369.5
12.5°	1351.6	1367.3	1365.9	1353.0	1372.6
15°	1338.6	1347.1	1334.2	1342.7	1339.5
17.5°	1325.7	1321.6	1320.3	1323.9	1327.0
20°	1303.3	1289.9	1297.9	1298.8	1308.7
22.5°	1271.1	1263.1	1264.8	1272.9	1273.8
25°	1237.6	1233.5	1238.5	1236.7	1250.5
27.5°	1202.7	1197.3	1200.4	1207.1	1215.6
30°	1162.9	1161.5	1159.3	1165.1	1178.1
32.5°	1123.5	1112.8	1111.0	1123.1	1137.8
35°	1068.9	1064.0	1056.0	1077.0	1087.7
37.5°	1017.1	1001.9	988.9	1001.4	1005.9
40°	938.8	927.2	896.7	898.1	891.8
42.5°	842.6	834.1	776.0	765.7	748.3
45°	718.3	718.7	649.9	644.0	616.3
47.5°	573.8	599.3	539.4	532.7	491.5
50°	439.2	485.3	448.2	437.4	382.9
52.5°	329.6	397.2	385.5	362.3	287.1
55°	258.5	326.9	335.4	302.3	224.1
57.5°	194.6	269.2	283.1	255.8	173.1
60°	144.5	226.8	230.8	220.1	133.7
62.5°	107.3	192.8	187.4	188.7	99.3
65°	78.7	164.1	148.9	163.7	76.5
67.5°	64.4	142.2	115.8	141.8	62.2
70°	56.4	126.1	86.3	124.8	56.4
72.5°	54.6	115.8	68.4	110.9	55.0
75°	55.0	103.3	51.9	96.6	55.5
77.5°	50.5	85.0	39.4	82.3	52.8
80°	45.2	64.4	30.0	65.3	47.4
82.5°	38.5	47.0	24.2	48.3	39.8
85°	26.4	34.4	22.4	34.4	27.7
87.5°	12.5	20.6	13.9	19.7	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)