

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: P475701

Luminaire Tested: **24GR-LD5-30-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475701
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2872.7 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

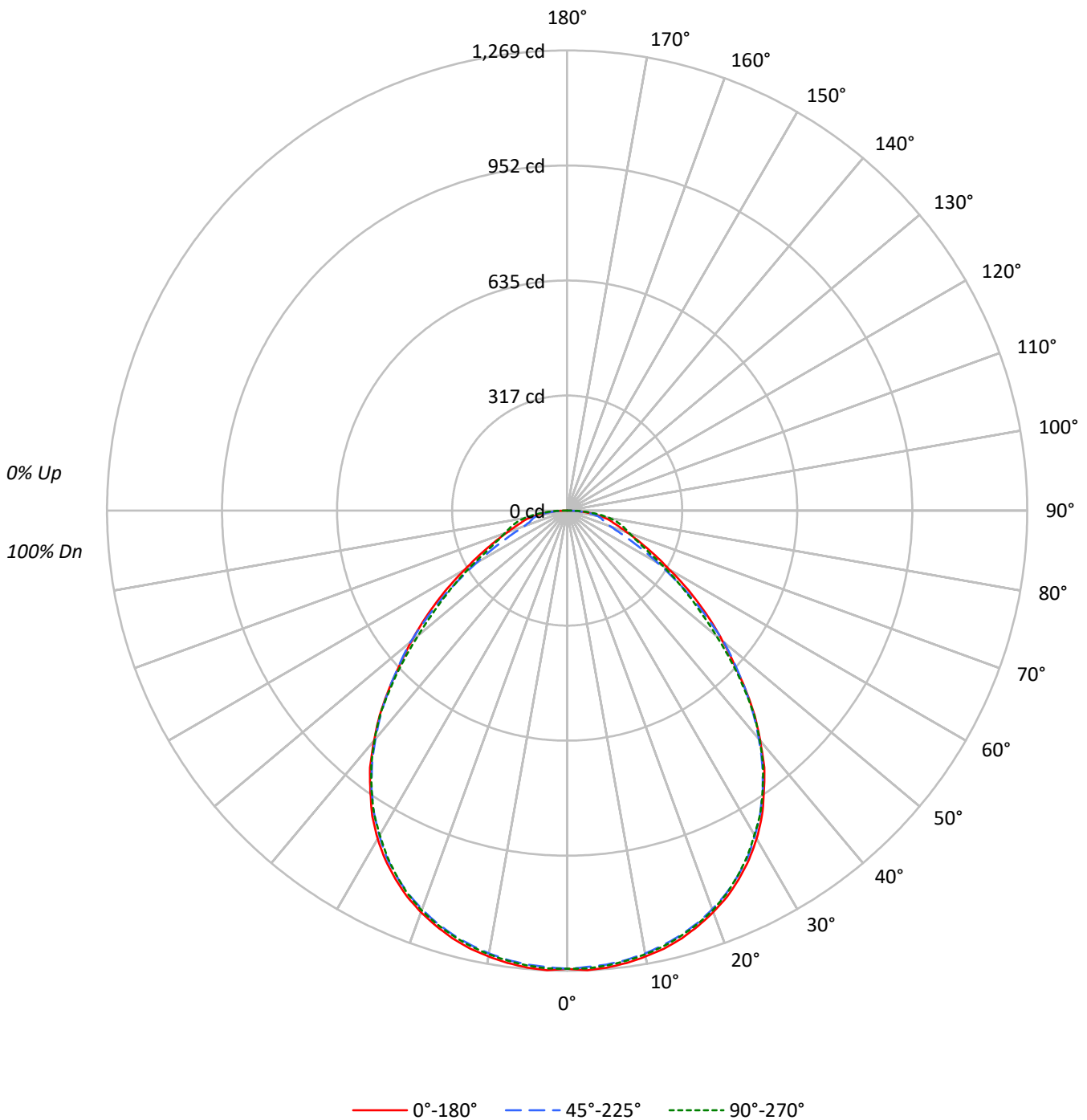
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1700	1700	1700
5°	1709	1697	1701
10°	1706	1694	1698
15°	1701	1688	1691
20°	1688	1676	1680
25°	1664	1652	1651
30°	1624	1609	1605
35°	1554	1544	1544
40°	1454	1446	1452
45°	1320	1318	1307
50°	1171	1180	1122
55°	1029	984	961
60°	876	777	818
65°	765	604	721
70°	692	497	720
75°	692	531	804
80°	762	653	921
85°	786	733	1005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	4.2
10°-20°	342.5	11.9
20°-30°	512.4	17.8
30°-40°	586.4	20.4
40°-50°	531.3	18.5
50°-60°	376.1	13.1
60°-70°	217.3	7.6
70°-80°	131.7	4.6
80°-90°	55.4	1.9
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°	974.6	33.9
0°-40°	1560.9	54.3
0°-60°	2468.3	85.9
0°-90°	2872.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2872.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1265	1260	1256	1256	1259	120
15°	1221	1216	1212	1212	1214	344
25°	1121	1116	1113	1112	1112	516
35°	946	942	940	939	940	590
45°	694	692	693	688	687	535
55°	439	424	420	407	410	393
65°	240	216	190	217	227	242
75°	133	119	102	131	155	143
85°	51	46	48	61	65	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1263.5	1263.5	1263.5	1263.5	1263.5
2.5°	1268.9	1264.1	1259.9	1260.4	1263.5
5°	1265.0	1260.4	1256.5	1256.2	1259.3
7.5°	1258.2	1254.2	1249.7	1249.7	1252.2
10°	1248.5	1244.6	1240.1	1239.8	1242.6
12.5°	1237.2	1232.1	1227.3	1227.3	1230.4
15°	1221.1	1216.3	1211.5	1211.5	1214.3
17.5°	1201.3	1197.1	1193.1	1193.4	1195.7
20°	1178.7	1174.4	1170.2	1170.8	1173.3
22.5°	1152.7	1147.6	1144.2	1143.9	1145.6
25°	1121.0	1116.5	1112.8	1111.9	1111.9
27.5°	1085.6	1080.8	1078.3	1074.3	1075.4
30°	1045.2	1040.1	1035.6	1033.3	1033.0
32.5°	999.6	994.5	990.6	990.3	991.4
35°	946.2	941.9	940.2	938.8	940.2
37.5°	893.3	885.4	883.9	883.7	887.3
40°	827.9	825.1	823.1	821.7	826.5
42.5°	765.1	759.5	760.0	754.7	763.2
45°	693.9	692.4	692.7	687.6	687.1
47.5°	623.1	622.9	627.1	613.0	612.1
50°	559.5	556.7	563.7	542.0	536.0
52.5°	498.7	490.8	488.5	468.7	468.7
55°	438.7	424.0	419.5	407.0	409.6
57.5°	381.9	360.9	351.6	351.3	355.6
60°	325.6	301.8	288.8	299.0	303.8
62.5°	280.9	254.9	235.1	254.3	258.8
65°	240.4	215.5	189.8	217.2	226.6
67.5°	205.6	185.0	152.7	188.7	201.1
70°	175.9	157.6	126.4	166.3	183.0
72.5°	152.5	137.2	110.0	148.5	168.6
75°	133.2	119.4	102.1	131.2	154.7
77.5°	118.0	101.5	95.6	114.8	138.9
80°	98.4	83.4	84.3	98.7	118.8
82.5°	75.8	64.5	67.9	81.7	93.3
85°	50.9	45.8	47.5	60.8	65.1
87.5°	25.2	24.3	26.0	35.6	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)