

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: P475668

Luminaire Tested: **24GR-LD5-130-A19/156-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475668
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-A19/156-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A19/156 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12341.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

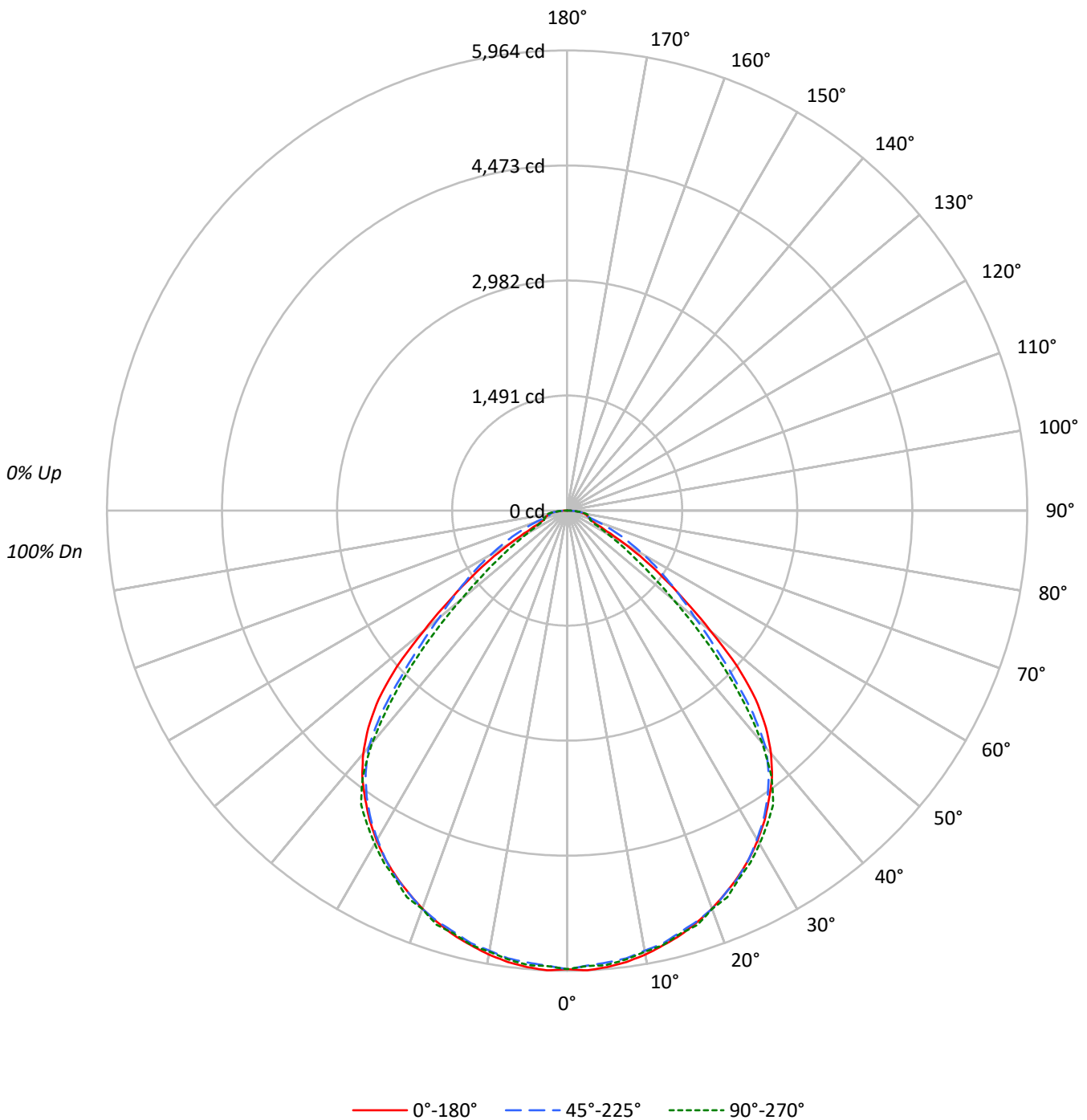
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	98	100	98	95	96	94	92	93	91	90					88				
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78					76				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69					67				
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61					59				
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54					52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49					47				
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44					42				
8	66	54	46	40	65	53	46	40	52	45	40	50	44	40	49	44	40					38				
9	62	49	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36					34				
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33					31				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7996	7996	7996
5°	8021	7943	7984
10°	7982	7913	7932
15°	7930	7879	7905
20°	7861	7867	7863
25°	7778	7791	7817
30°	7669	7646	7747
35°	7495	7440	7646
40°	7223	7033	6907
45°	6574	5785	5458
50°	5073	4537	3750
55°	3605	3784	2482
60°	2282	3056	1619
65°	1324	2404	1184
70°	1226	1656	1255
75°	1411	1261	1496
80°	1762	1743	1976
85°	1920	2036	2113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.0	4.5
10°-20°	1601.8	13.0
20°-30°	2417.0	19.6
30°-40°	2837.0	23.0
40°-50°	2388.3	19.4
50°-60°	1356.7	11.0
60°-70°	677.1	5.5
70°-80°	355.0	2.9
80°-90°	148.0	1.2
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°	4578.8	37.1
0°-40°	7415.8	60.1
0°-60°	11160.8	90.4
0°-90°	12341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12341.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5943	5943	5943	5943	5943	
5°	5939	5896	5881	5891	5911	564
15°	5693	5679	5656	5671	5675	1605
25°	5239	5242	5248	5262	5266	2413
35°	4563	4538	4529	4606	4655	2850
45°	3455	3317	3040	2988	2868	2602
55°	1537	1643	1613	1391	1058	1398
65°	416	862	755	641	372	473
75°	271	418	242	364	288	288
85°	124	148	132	167	137	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5942.7	5942.7	5942.7	5942.7	5942.7
2.5°	5964.1	5935.2	5902.5	5893.7	5908.8
5°	5938.9	5896.2	5881.1	5891.2	5911.3
7.5°	5900.0	5856.0	5853.5	5835.9	5866.1
10°	5842.2	5813.3	5791.9	5802.0	5805.7
12.5°	5769.3	5760.5	5744.2	5730.4	5764.3
15°	5692.7	5678.9	5656.2	5671.3	5675.1
17.5°	5594.7	5587.1	5583.4	5594.7	5627.3
20°	5490.4	5490.4	5494.2	5496.7	5491.6
22.5°	5366.0	5362.2	5367.3	5377.3	5425.1
25°	5239.1	5241.6	5247.9	5261.7	5265.5
27.5°	5098.4	5099.7	5097.1	5111.0	5143.6
30°	4936.3	4931.3	4921.3	4951.4	4986.6
32.5°	4760.4	4750.4	4739.1	4785.6	4823.3
35°	4563.2	4538.1	4529.3	4605.9	4654.9
37.5°	4360.9	4309.4	4290.5	4347.1	4353.4
40°	4112.1	4035.5	4004.1	3948.8	3932.5
42.5°	3813.1	3734.0	3564.4	3478.9	3418.6
45°	3455.1	3316.9	3040.4	2987.7	2868.3
47.5°	2992.7	2845.7	2569.3	2456.2	2320.5
50°	2423.6	2338.1	2167.3	2026.5	1791.6
52.5°	1937.3	1954.9	1874.5	1679.8	1388.3
55°	1536.6	1643.3	1613.2	1390.8	1057.9
57.5°	1182.3	1412.2	1375.7	1144.6	807.9
60°	848.1	1209.9	1135.8	942.3	601.8
62.5°	581.7	1032.7	931.0	777.7	461.1
65°	415.9	861.9	755.1	640.8	371.9
67.5°	341.7	704.8	579.2	544.0	324.1
70°	311.6	567.9	420.9	474.9	319.1
72.5°	296.5	476.2	309.1	415.9	304.0
75°	271.4	418.4	242.5	364.4	287.7
77.5°	251.3	361.8	226.1	319.1	280.2
80°	227.4	286.5	224.9	270.1	255.0
82.5°	183.4	208.6	189.7	221.1	206.0
85°	124.4	148.3	131.9	167.1	136.9
87.5°	61.6	72.9	59.0	79.2	60.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)