

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: P272126

Luminaire Tested: **24CZ2-30HE-S-UNV-L935-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P272126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30HE-S-UNV-L935-CD1-U
Description: 2'x4' TROFFER LED MODULE,SMOOTH LENS, 90CRI
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

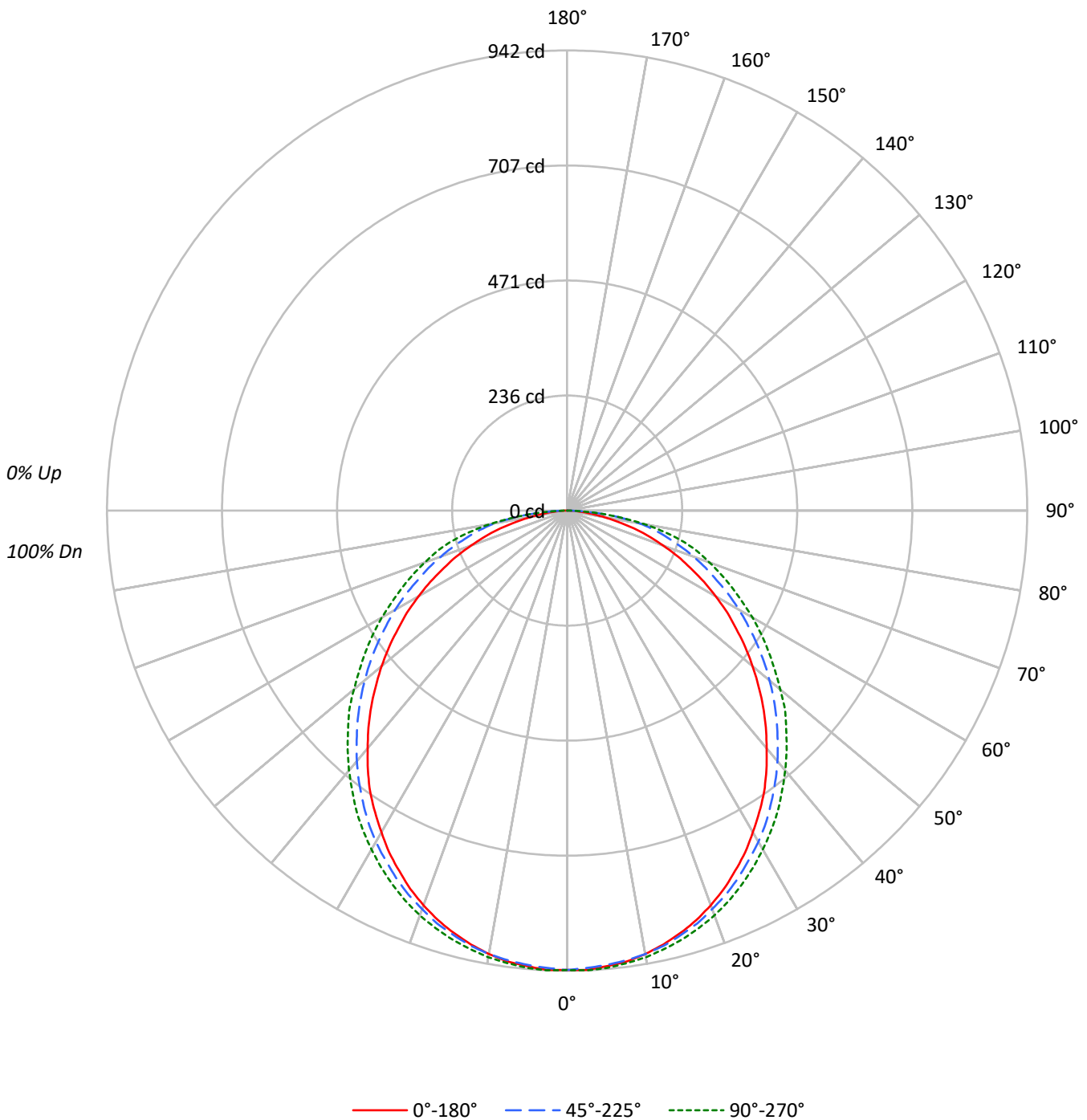
Lumens per Lamp: N/A
Luminaire Lumens: 2677.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.27 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 22.4
Input Voltage (V): NR
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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1265	1265	1265
5°	1264	1261	1269
10°	1259	1259	1269
15°	1247	1253	1266
20°	1231	1243	1263
25°	1208	1231	1255
30°	1181	1217	1244
35°	1155	1197	1235
40°	1116	1177	1220
45°	1079	1154	1207
50°	1038	1132	1193
55°	991	1111	1181
60°	945	1094	1178
65°	885	1075	1186
70°	819	1081	1218
75°	734	1101	1286
80°	593	1166	1258
85°	446	1024	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	3.3
10°-20°	254.4	9.5
20°-30°	382.4	14.3
30°-40°	455.5	17.0
40°-50°	466.2	17.4
50°-60°	419.7	15.7
60°-70°	329.6	12.3
70°-80°	213.9	8.0
80°-90°	66.2	2.5
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°	725.8	27.1
0°-40°	1181.4	44.1
0°-60°	2067.3	77.2
0°-90°	2677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	936	938	934	939	940	89
15°	895	898	900	907	909	252
25°	814	821	829	843	845	375
35°	703	712	729	747	752	439
45°	567	581	606	629	634	437
55°	423	441	474	498	503	379
65°	278	299	338	366	372	277
75°	141	168	212	241	247	149
85°	29	54	66	65	65	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.4	940.4	940.4	940.4	940.4
2.5°	941.3	941.3	937.0	941.3	942.1
5°	936.2	937.9	933.6	938.7	939.6
7.5°	931.1	931.1	928.5	933.6	934.5
10°	921.7	922.6	921.7	927.7	928.5
12.5°	909.8	911.5	912.4	918.3	919.2
15°	895.4	897.9	899.6	907.3	909.0
17.5°	879.2	881.8	886.0	894.5	896.2
20°	859.7	863.1	868.2	879.2	881.8
22.5°	838.4	841.8	850.3	860.5	864.8
25°	813.8	820.6	829.1	842.7	845.2
27.5°	789.1	795.0	806.1	820.6	824.0
30°	760.2	769.5	783.1	797.6	801.0
32.5°	732.1	741.5	757.6	772.9	777.2
35°	703.2	711.7	728.7	746.6	751.7
37.5°	670.0	681.1	699.8	717.7	722.8
40°	635.2	648.8	670.0	688.8	694.7
42.5°	602.0	616.5	637.7	658.1	664.9
45°	567.2	580.8	606.3	629.2	634.3
47.5°	531.4	546.8	574.0	596.9	605.4
50°	495.7	511.9	540.8	564.6	569.7
52.5°	460.0	477.0	507.6	533.1	535.7
55°	422.6	441.3	473.6	498.3	503.4
57.5°	388.6	404.7	439.6	465.1	471.1
60°	351.2	369.0	406.5	430.3	437.9
62.5°	315.5	334.2	373.3	397.1	403.9
65°	278.1	299.3	337.6	365.6	372.4
67.5°	245.7	266.1	307.0	334.2	341.0
70°	208.3	231.3	274.7	302.7	309.5
72.5°	176.0	199.8	243.2	270.4	280.6
75°	141.2	168.4	211.7	240.6	247.4
77.5°	107.1	138.6	182.8	204.9	204.9
80°	76.5	109.7	150.5	160.7	162.4
82.5°	50.2	82.5	111.4	110.5	110.5
85°	28.9	53.6	66.3	64.6	64.6
87.5°	11.1	22.1	23.8	23.8	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)