

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: P271984

Luminaire Tested: **22CZ2-29HE-UNV-L950-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: P271984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29HE-UNV-L950-CD1-U
Description: 2'X2' TROFFER LED MODULE,RIBBED LENS, 90CRI
Light Source: (196) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2668.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

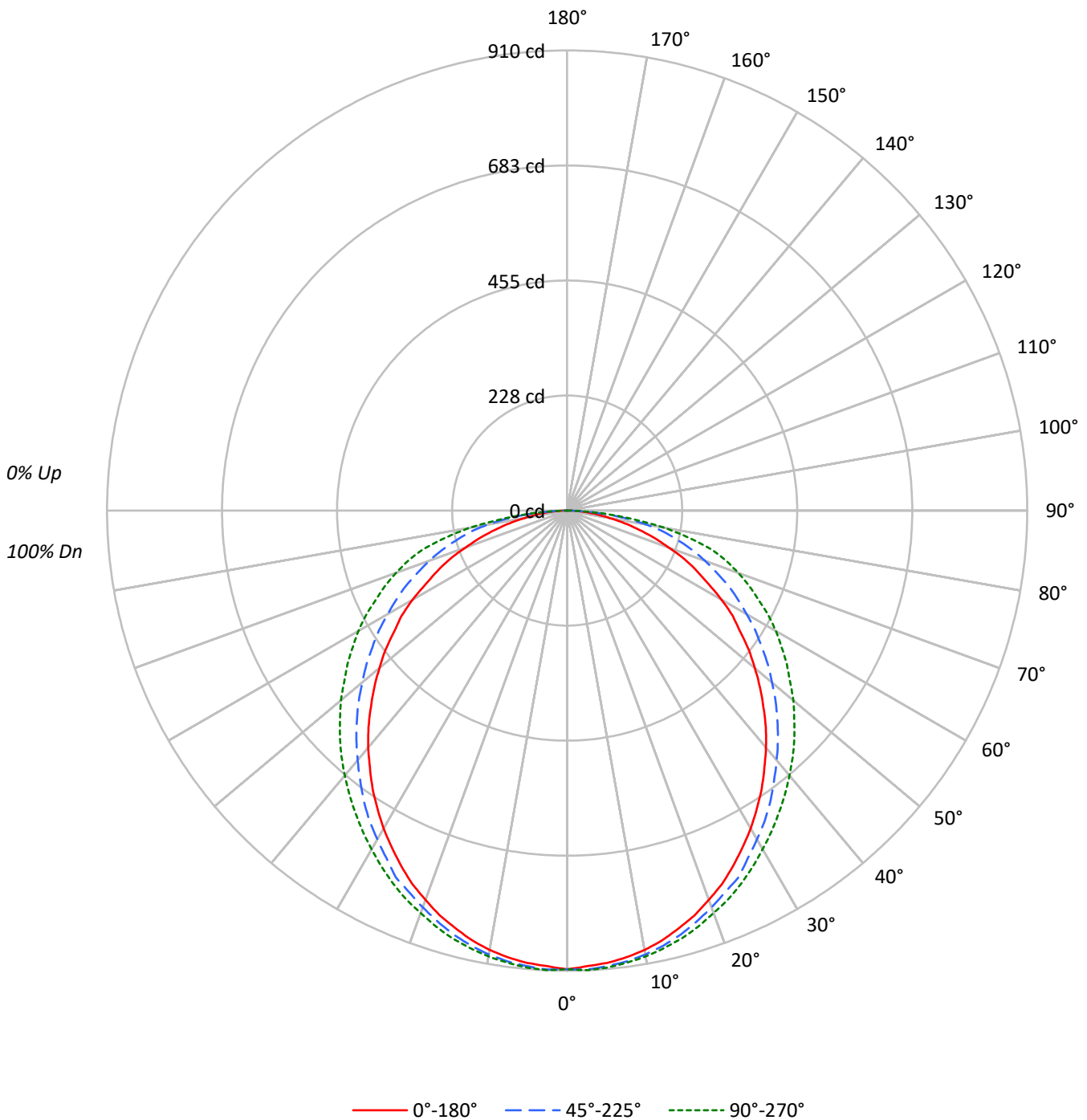
Input Watts (W): 22.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	96	93	96	93	90		92	90	87		89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52		63	56	51		60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44		56	49	44		54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	35	30		41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2441	2441	2441
5°	2426	2443	2451
10°	2411	2436	2447
15°	2381	2418	2440
20°	2346	2391	2425
25°	2304	2378	2417
30°	2256	2333	2403
35°	2204	2303	2398
40°	2149	2264	2403
45°	2089	2238	2418
50°	2028	2215	2446
55°	1959	2205	2488
60°	1901	2204	2565
65°	1806	2240	2658
70°	1684	2282	2830
75°	1543	2361	3058
80°	1342	2462	3011
85°	1176	2189	2393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.2
10°-20°	244.4	9.2
20°-30°	366.8	13.7
30°-40°	438.3	16.4
40°-50°	455.8	17.1
50°-60°	422.5	15.8
60°-70°	346.5	13.0
70°-80°	234.2	8.8
80°-90°	73.6	2.8
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°	697.0	26.1
0°-40°	1135.3	42.6
0°-60°	2013.6	75.5
0°-90°	2668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	898	899	904	906	907	85
15°	855	859	868	873	876	241
25°	776	782	801	810	814	357
35°	671	680	701	722	730	419
45°	549	559	588	622	635	424
55°	418	431	470	512	530	375
65°	284	299	352	398	418	280
75°	148	173	227	273	294	157
85°	38	52	71	79	78	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.2	907.2	907.2	907.2	907.2
2.5°	901.9	904.5	908.5	909.8	909.8
5°	898.0	899.3	904.5	905.9	907.2
7.5°	891.4	894.0	899.3	900.6	901.9
10°	882.2	884.9	891.4	894.0	895.4
12.5°	870.4	873.0	880.9	884.9	886.2
15°	854.7	858.6	867.8	873.0	875.7
17.5°	838.9	842.8	852.0	859.9	862.5
20°	819.2	828.4	835.0	845.5	846.8
22.5°	799.5	804.8	816.6	827.1	832.3
25°	775.9	782.4	800.8	810.0	814.0
27.5°	750.9	760.1	774.6	789.0	794.3
30°	726.0	732.6	750.9	768.0	773.3
32.5°	698.4	707.6	727.3	744.4	752.3
35°	670.9	680.0	701.1	722.1	729.9
37.5°	640.7	651.2	672.2	697.1	707.6
40°	611.8	619.7	644.6	674.8	684.0
42.5°	581.6	590.8	617.0	649.9	660.4
45°	548.8	559.3	588.2	622.3	635.4
47.5°	517.3	527.8	559.3	593.4	609.2
50°	484.4	497.6	529.1	568.5	584.2
52.5°	452.9	464.7	500.2	540.9	555.3
55°	417.5	430.6	470.0	512.0	530.4
57.5°	388.6	397.8	441.1	484.4	502.8
60°	353.2	365.0	409.6	455.6	476.6
62.5°	315.1	334.8	380.7	428.0	449.0
65°	283.6	299.3	351.8	397.8	417.5
67.5°	250.8	267.8	319.0	367.6	389.9
70°	214.0	236.3	290.1	338.7	359.7
72.5°	181.2	204.8	259.9	307.2	329.5
75°	148.4	173.3	227.1	273.1	294.1
77.5°	116.8	144.4	196.9	232.4	245.5
80°	86.6	112.9	158.9	183.8	194.3
82.5°	60.4	82.7	116.8	130.0	132.6
85°	38.1	52.5	70.9	78.8	77.5
87.5°	17.1	21.0	26.3	28.9	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)