

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: P274773

Luminaire Tested: **22CZ2-44-RDP-UNV-L940-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: P274773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44-RDP-UNV-L940-CD1-U
Description: 2'X2' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (98) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2529.0 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

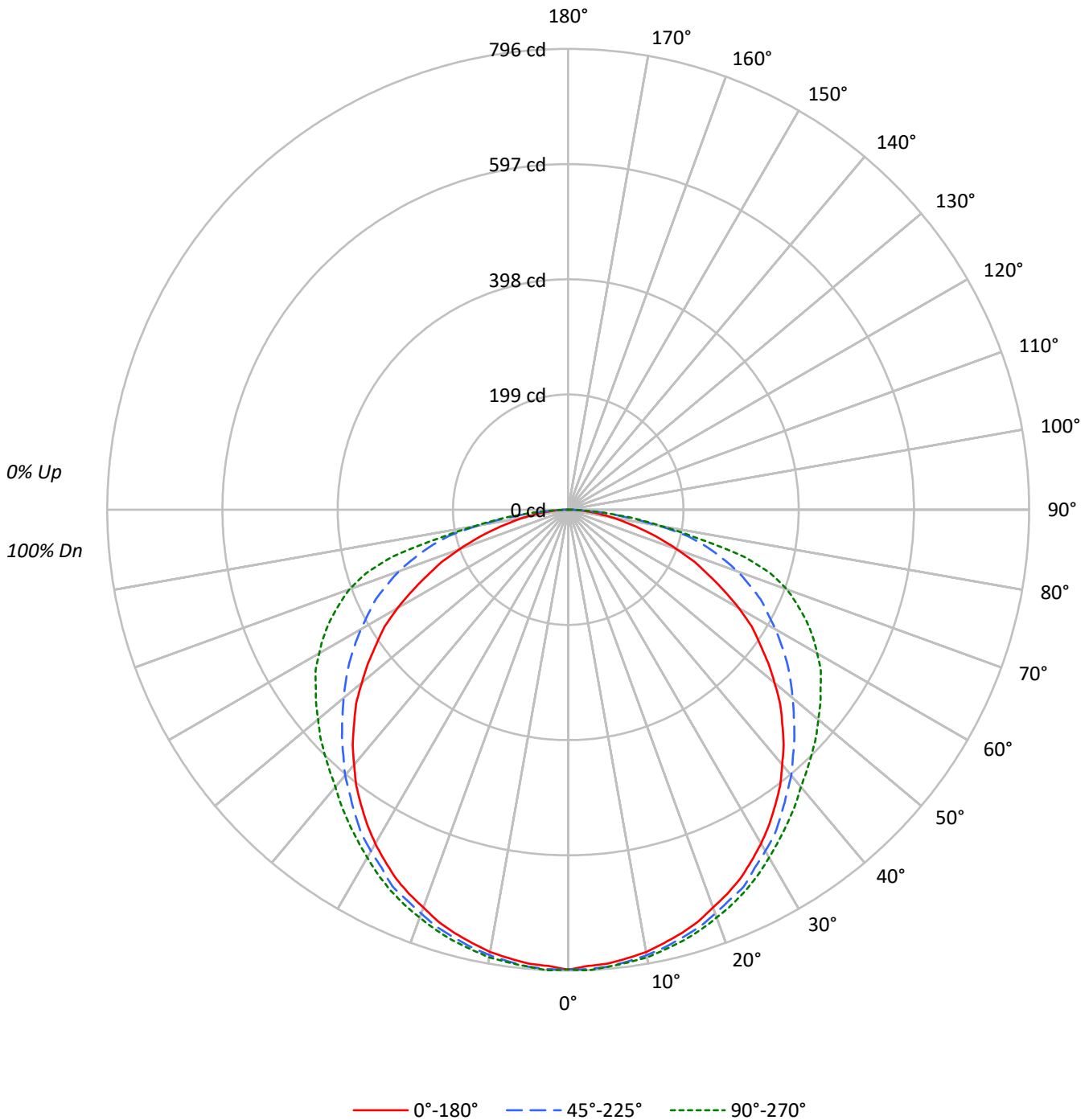
Input Watts (W): 42.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2138	2138	2138
5°	2126	2141	2141
10°	2120	2135	2145
15°	2109	2130	2146
20°	2094	2126	2147
25°	2088	2132	2154
30°	2069	2116	2156
35°	2047	2108	2170
40°	2020	2105	2196
45°	1990	2103	2265
50°	1947	2118	2360
55°	1894	2165	2496
60°	1833	2223	2673
65°	1706	2334	2890
70°	1566	2445	3162
75°	1373	2572	3269
80°	1182	2450	2566
85°	1034	1782	1954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	3.0
10°-20°	215.8	8.5
20°-30°	329.2	13.0
30°-40°	401.9	15.9
40°-50°	429.8	17.0
50°-60°	414.8	16.4
60°-70°	357.1	14.1
70°-80°	241.6	9.6
80°-90°	63.7	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°	620.1	24.5
0°-40°	1022.0	40.4
0°-60°	1866.6	73.8
0°-90°	2529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	787	789	792	792	792	75
15°	757	759	765	768	770	214
25°	703	707	718	722	726	324
35°	623	629	642	655	660	390
45°	523	532	552	580	595	404
55°	404	417	461	508	532	362
65°	268	294	366	424	454	266
75°	132	175	247	298	314	142
85°	34	46	58	60	63	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	794.4	794.4	794.4	794.4	794.4
2.5°	788.8	790.7	794.4	794.4	796.3
5°	787.0	788.8	792.5	792.5	792.5
7.5°	781.4	783.2	787.0	788.8	788.8
10°	775.8	777.7	781.4	783.2	785.1
12.5°	766.5	768.4	773.9	777.7	777.7
15°	757.2	759.1	764.6	768.4	770.2
17.5°	746.0	749.8	755.3	759.1	760.9
20°	731.1	734.9	742.3	747.9	749.8
22.5°	718.1	721.8	729.3	734.9	738.6
25°	703.2	707.0	718.1	721.8	725.6
27.5°	684.6	688.4	697.7	705.1	710.7
30°	666.0	669.8	680.9	690.2	693.9
32.5°	645.6	651.1	664.2	671.6	677.2
35°	623.2	628.8	641.8	654.9	660.5
37.5°	600.9	606.5	619.5	636.3	643.7
40°	574.9	582.3	599.1	621.4	625.1
42.5°	550.7	560.0	574.9	600.9	610.2
45°	522.8	532.1	552.5	580.5	595.3
47.5°	496.7	506.0	528.4	561.8	580.5
50°	465.1	478.1	506.0	545.1	563.7
52.5°	435.3	446.5	483.7	526.5	548.8
55°	403.7	416.7	461.4	507.9	532.1
57.5°	375.8	387.0	437.2	489.3	517.2
60°	340.5	355.3	413.0	468.8	496.7
62.5°	303.2	325.6	388.8	446.5	476.3
65°	267.9	293.9	366.5	424.2	453.9
67.5°	236.3	264.2	338.6	400.0	427.9
70°	199.1	234.4	310.7	370.2	401.9
72.5°	165.6	204.6	279.1	338.6	366.5
75°	132.1	174.9	247.4	297.7	314.4
77.5°	102.3	143.3	212.1	227.0	228.8
80°	76.3	113.5	158.1	160.0	165.6
82.5°	52.1	80.0	102.3	111.6	113.5
85°	33.5	46.5	57.7	59.5	63.3
87.5°	14.9	16.7	20.5	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)