

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: P388521

Luminaire Tested: **24CZ2-30VHE-SQR-UNV-L950-CD1-SDWPD1-U**

Issue Date: 2/28/2020

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: P388521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-678-2)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30VHE-SQR-UNV-L950-CD1-SDWPD1-U
Description: 2x4 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2558.2 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

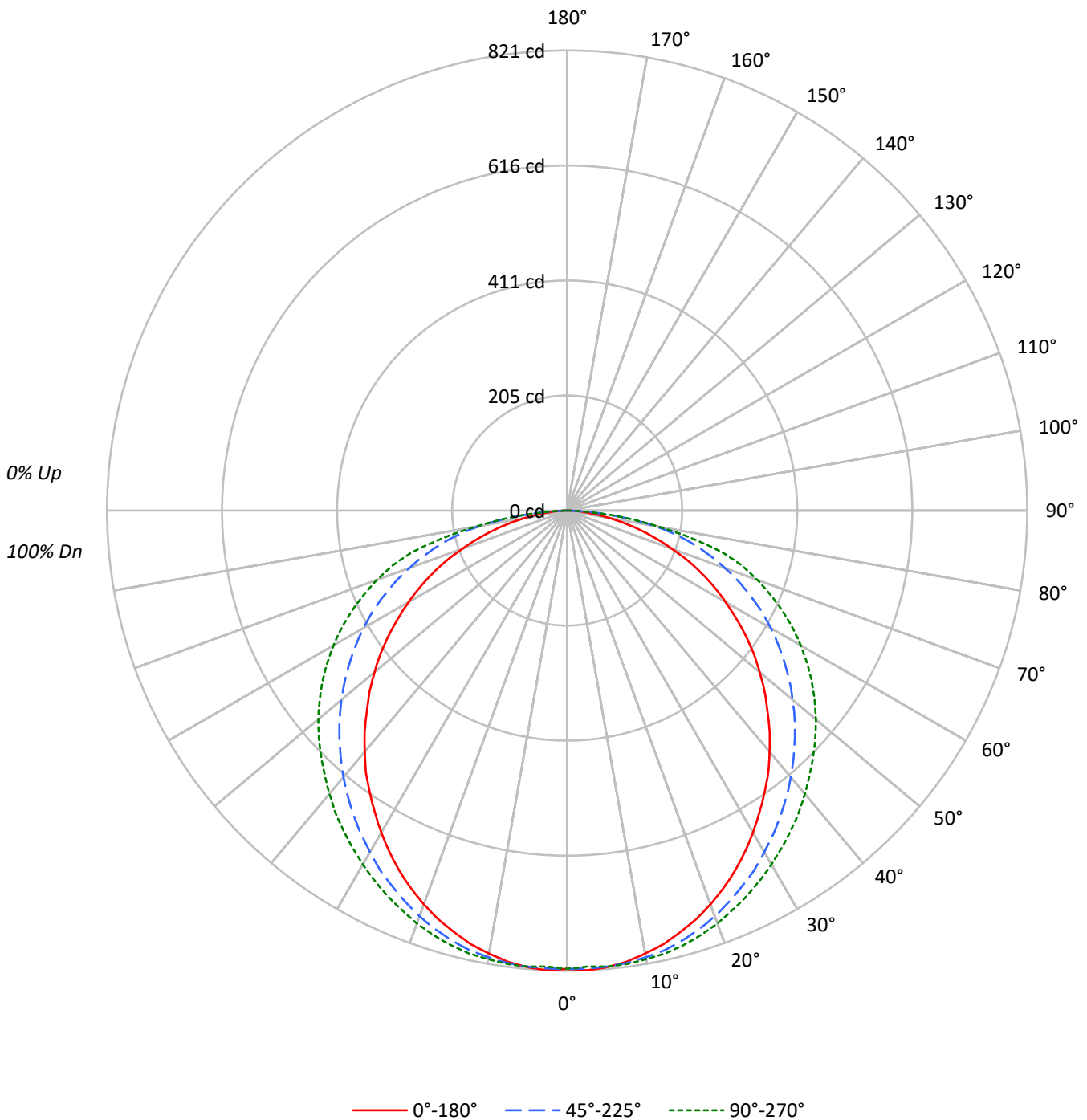
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1100	1100	1100
5°	1104	1103	1103
10°	1096	1106	1110
15°	1085	1106	1118
20°	1070	1103	1122
25°	1052	1097	1126
30°	1030	1093	1133
35°	1009	1091	1143
40°	987	1091	1159
45°	961	1093	1181
50°	939	1100	1213
55°	912	1112	1250
60°	880	1130	1296
65°	842	1151	1350
70°	781	1180	1419
75°	707	1221	1484
80°	596	1224	1276
85°	457	926	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.0
10°-20°	223.3	8.7
20°-30°	339.2	13.3
30°-40°	412.6	16.1
40°-50°	439.3	17.2
50°-60°	418.4	16.4
60°-70°	349.9	13.7
70°-80°	233.3	9.1
80°-90°	64.6	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°	640.2	25.0
0°-40°	1052.8	41.2
0°-60°	1910.5	74.7
0°-90°	2558.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2558.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	818	813	817	817	817	78
15°	779	781	794	800	802	220
25°	709	718	739	752	759	326
35°	614	632	664	686	696	384
45°	505	532	574	606	621	391
55°	389	422	474	515	533	347
65°	264	303	362	406	424	261
75°	136	179	235	274	286	144
85°	30	55	60	59	60	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.7	817.7	817.7	817.7	817.7
2.5°	821.1	815.2	817.7	817.7	814.3
5°	817.7	812.7	816.9	816.9	816.9
7.5°	811.8	807.6	814.3	816.0	816.0
10°	802.5	800.8	809.3	811.8	812.7
12.5°	792.4	791.5	803.4	806.7	809.3
15°	778.9	780.6	794.1	800.0	802.5
17.5°	764.5	767.9	783.1	791.5	794.1
20°	747.6	752.7	770.4	778.9	783.9
22.5°	729.0	736.6	755.2	765.4	771.3
25°	708.8	718.0	739.2	751.8	758.6
27.5°	686.8	698.6	723.1	737.5	744.2
30°	663.1	676.7	703.7	720.6	729.0
32.5°	638.6	654.7	684.3	702.8	713.0
35°	614.1	631.9	664.0	685.9	696.1
37.5°	589.6	607.4	642.9	666.5	679.2
40°	561.8	582.9	620.9	647.1	659.8
42.5°	534.7	557.5	598.1	626.8	640.3
45°	505.2	532.2	574.4	606.5	620.9
47.5°	478.1	505.2	550.8	584.6	600.6
50°	448.6	477.3	525.4	562.6	579.5
52.5°	419.8	449.4	500.1	539.8	556.7
55°	388.6	422.4	473.9	515.3	533.0
57.5°	357.3	393.7	446.9	490.0	507.7
60°	326.9	364.1	419.8	462.9	481.5
62.5°	296.5	333.7	392.0	435.9	453.6
65°	264.4	303.3	361.6	406.3	424.1
67.5°	232.3	272.9	331.1	375.9	392.8
70°	198.5	241.6	299.9	343.8	360.7
72.5°	167.3	210.3	267.8	310.9	326.9
75°	136.0	179.1	234.8	274.5	285.5
77.5°	105.6	148.7	198.5	224.7	227.2
80°	76.9	117.4	158.0	165.6	164.7
82.5°	51.5	87.9	109.0	109.8	112.4
85°	29.6	54.9	60.0	59.1	60.0
87.5°	11.8	19.4	16.9	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)