

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: P263123

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-SQP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2008.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

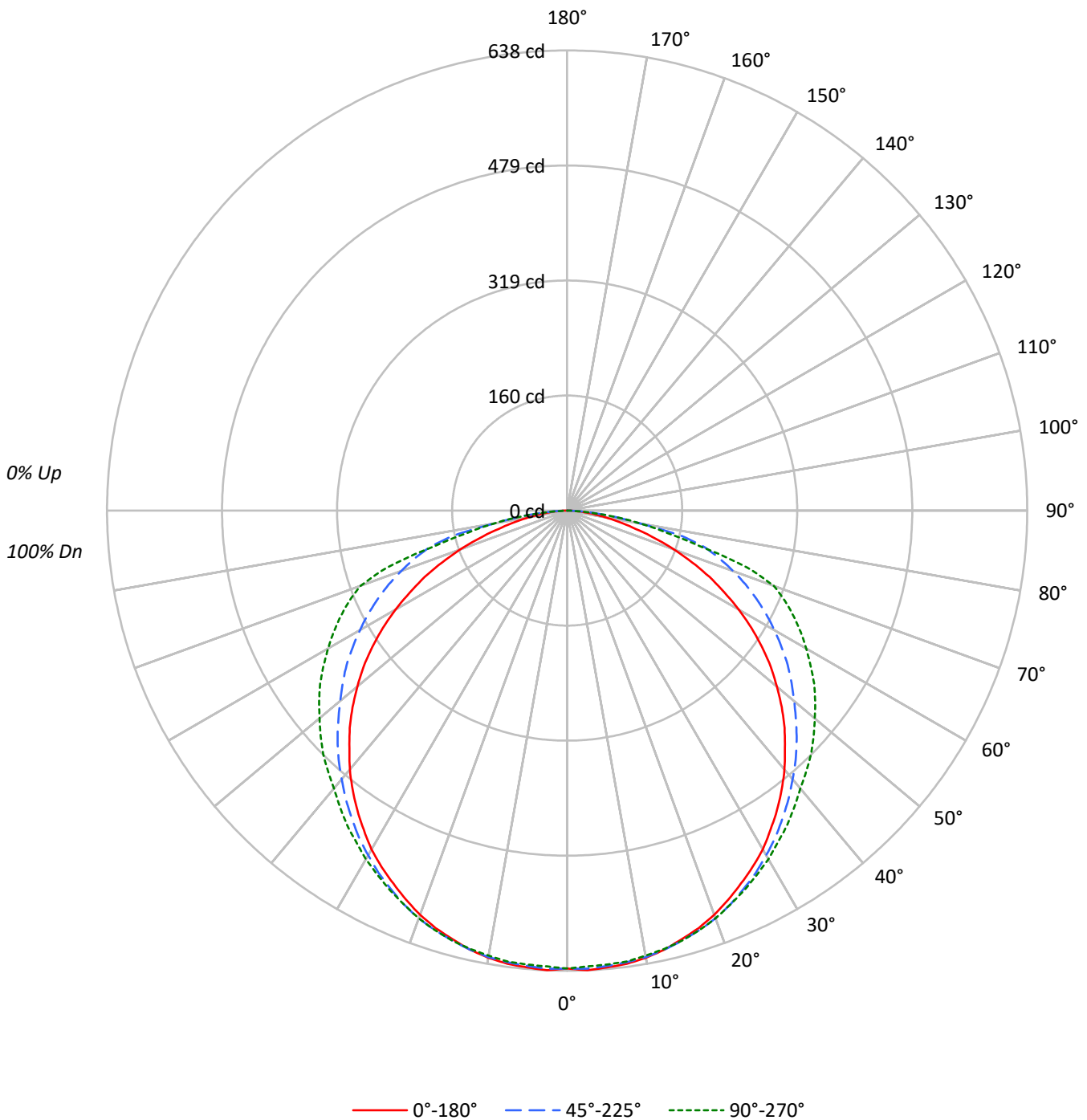
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60		70	64	59		67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	45	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	29	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	854	854	854
5°	859	856	853
10°	860	859	856
15°	857	860	860
20°	854	861	861
25°	847	859	862
30°	843	857	867
35°	833	855	874
40°	823	854	883
45°	811	856	910
50°	795	860	938
55°	774	876	981
60°	740	893	1030
65°	693	921	1103
70°	620	963	1199
75°	512	1030	992
80°	418	796	804
85°	337	528	497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	3.0
10°-20°	174.0	8.7
20°-30°	265.9	13.2
30°-40°	325.2	16.2
40°-50°	347.9	17.3
50°-60°	333.2	16.6
60°-70°	281.8	14.0
70°-80°	178.7	8.9
80°-90°	41.1	2.0
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°	500.1	24.9
0°-40°	825.3	41.1
0°-60°	1506.4	75.0
0°-90°	2008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	636	633	634	633	632	61
15°	615	614	617	617	617	174
25°	570	570	579	581	581	263
35°	507	510	521	528	532	317
45°	426	434	450	469	478	328
55°	330	340	373	404	418	294
65°	218	239	289	329	346	215
75°	98	139	198	197	191	107
85°	22	33	34	31	32	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634.8	634.8	634.8	634.8	634.8
2.5°	637.9	634.8	635.8	634.8	632.7
5°	635.8	632.7	633.7	632.7	631.7
7.5°	633.7	630.6	631.7	630.6	630.6
10°	629.6	626.5	628.5	627.5	626.5
12.5°	623.4	621.3	623.4	622.3	622.3
15°	615.1	614.0	617.1	617.1	617.1
17.5°	606.8	605.7	609.9	609.9	609.9
20°	596.4	595.4	601.6	601.6	601.6
22.5°	583.9	582.9	591.2	591.2	591.2
25°	570.5	570.5	578.8	580.8	580.8
27.5°	557.0	557.0	566.3	569.4	569.4
30°	542.5	542.5	551.8	555.9	558.0
32.5°	524.8	526.9	537.3	542.5	544.5
35°	507.2	510.3	520.7	527.9	532.1
37.5°	488.5	491.6	504.1	512.4	517.6
40°	468.8	473.0	486.4	496.8	503.0
42.5°	447.0	453.3	468.8	482.3	490.6
45°	426.3	433.5	450.1	468.8	478.1
47.5°	403.5	411.8	430.4	454.3	463.6
50°	379.6	387.9	410.7	437.7	448.1
52.5°	355.8	365.1	392.1	421.1	433.5
55°	329.8	340.2	373.4	404.5	418.0
57.5°	302.9	315.3	352.6	385.8	400.4
60°	274.9	290.4	331.9	367.2	382.7
62.5°	245.8	264.5	311.2	348.5	365.1
65°	217.8	238.6	289.4	328.8	346.4
67.5°	187.7	213.7	267.6	310.1	326.7
70°	157.7	187.7	244.8	288.3	304.9
72.5°	127.6	163.9	222.0	261.4	261.4
75°	98.5	139.0	198.1	197.1	190.8
77.5°	74.7	116.2	162.8	139.0	140.0
80°	53.9	93.3	102.7	102.7	103.7
82.5°	36.3	71.6	66.4	65.3	67.4
85°	21.8	33.2	34.2	31.1	32.2
87.5°	10.4	11.4	9.3	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)