

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: P263198

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263198
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-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1706.7 lumens
Efficiency: N/A
Efficacy: 77.0 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

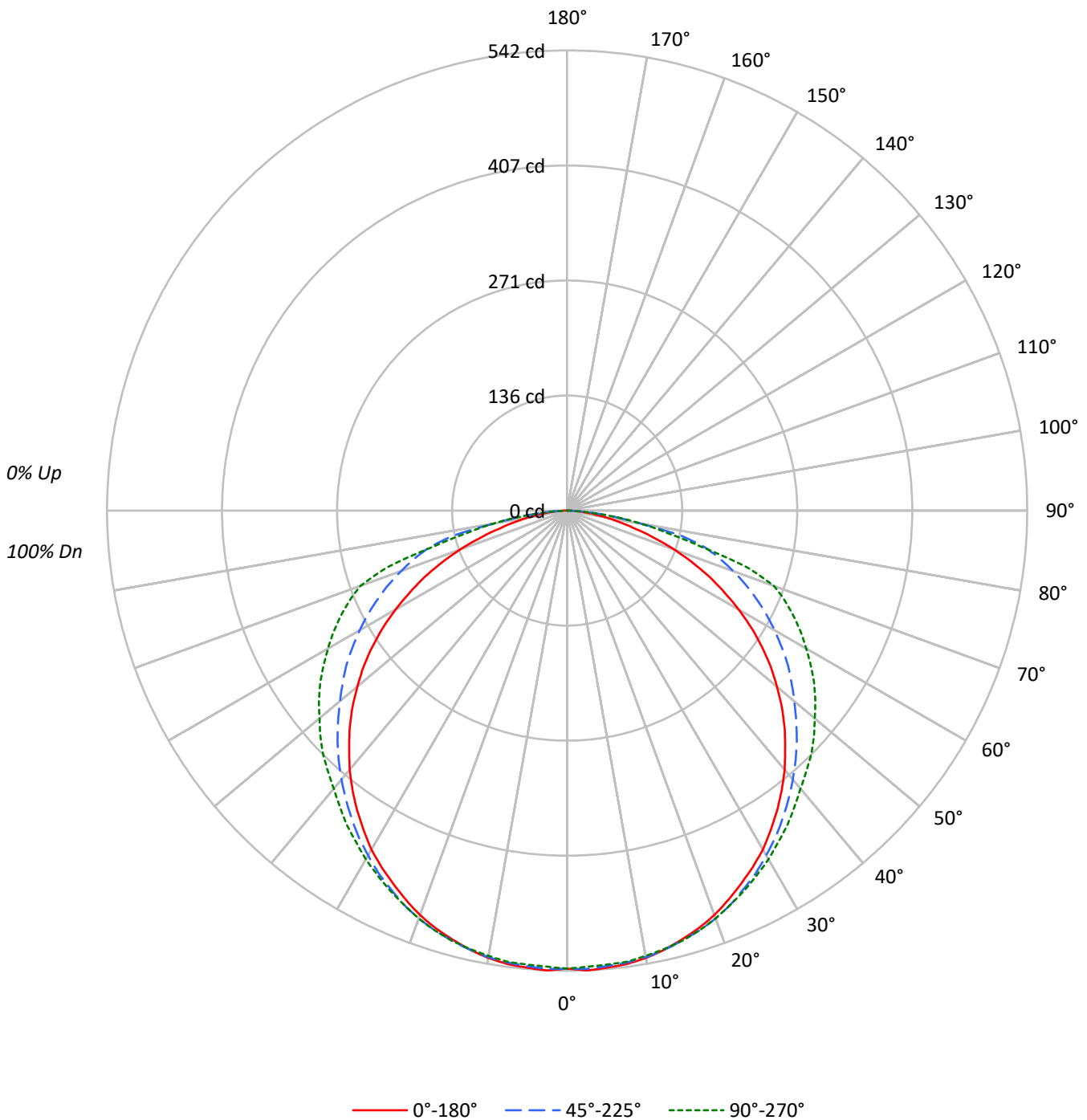
Input Watts (W): 22.175478
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	726	726	726
5°	730	727	725
10°	731	730	728
15°	728	731	731
20°	726	732	732
25°	720	730	733
30°	716	729	737
35°	708	727	743
40°	700	726	751
45°	689	728	773
50°	675	731	797
55°	658	745	833
60°	629	759	875
65°	589	783	937
70°	527	818	1020
75°	435	875	843
80°	355	676	683
85°	286	449	421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	3.0
10°-20°	147.9	8.7
20°-30°	226.0	13.2
30°-40°	276.4	16.2
40°-50°	295.7	17.3
50°-60°	283.2	16.6
60°-70°	239.6	14.0
70°-80°	151.8	8.9
80°-90°	34.9	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°	425.1	24.9
0°-40°	701.5	41.1
0°-60°	1280.3	75.0
0°-90°	1706.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	540	538	539	538	537	51
15°	523	522	524	524	524	148
25°	485	485	492	494	494	224
35°	431	434	442	449	452	270
45°	362	368	383	398	406	279
55°	280	289	317	344	355	250
65°	185	203	246	280	294	182
75°	84	118	168	168	162	91
85°	18	28	29	26	27	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	539.5	539.5	539.5	539.5	539.5
2.5°	542.2	539.5	540.4	539.5	537.7
5°	540.4	537.7	538.6	537.7	536.9
7.5°	538.6	536.0	536.9	536.0	536.0
10°	535.1	532.5	534.2	533.3	532.5
12.5°	529.8	528.0	529.8	528.9	528.9
15°	522.8	521.9	524.5	524.5	524.5
17.5°	515.7	514.8	518.4	518.4	518.4
20°	506.9	506.0	511.3	511.3	511.3
22.5°	496.3	495.4	502.5	502.5	502.5
25°	484.9	484.9	491.9	493.7	493.7
27.5°	473.4	473.4	481.3	484.0	484.0
30°	461.1	461.1	469.0	472.5	474.3
32.5°	446.1	447.8	456.6	461.1	462.8
35°	431.1	433.7	442.5	448.7	452.2
37.5°	415.2	417.9	428.4	435.5	439.9
40°	398.5	402.0	413.4	422.3	427.6
42.5°	379.9	385.2	398.5	409.9	417.0
45°	362.3	368.5	382.6	398.5	406.4
47.5°	342.9	350.0	365.8	386.1	394.1
50°	322.6	329.7	349.1	372.0	380.8
52.5°	302.4	310.3	333.2	357.9	368.5
55°	280.3	289.1	317.4	343.8	355.3
57.5°	257.4	268.0	299.7	327.9	340.3
60°	233.6	246.8	282.1	312.1	325.3
62.5°	208.9	224.8	264.5	296.2	310.3
65°	185.1	202.8	246.0	279.5	294.4
67.5°	159.6	181.6	227.4	263.6	277.7
70°	134.0	159.6	208.0	245.1	259.2
72.5°	108.4	139.3	188.7	222.2	222.2
75°	83.7	118.1	168.4	167.5	162.2
77.5°	63.5	98.7	138.4	118.1	119.0
80°	45.8	79.3	87.3	87.3	88.2
82.5°	30.9	60.8	56.4	55.5	57.3
85°	18.5	28.2	29.1	26.4	27.3
87.5°	8.8	9.7	7.9	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)