

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: P263125

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263125
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2128.0 lumens
Efficiency: N/A
Efficacy: 93.2 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

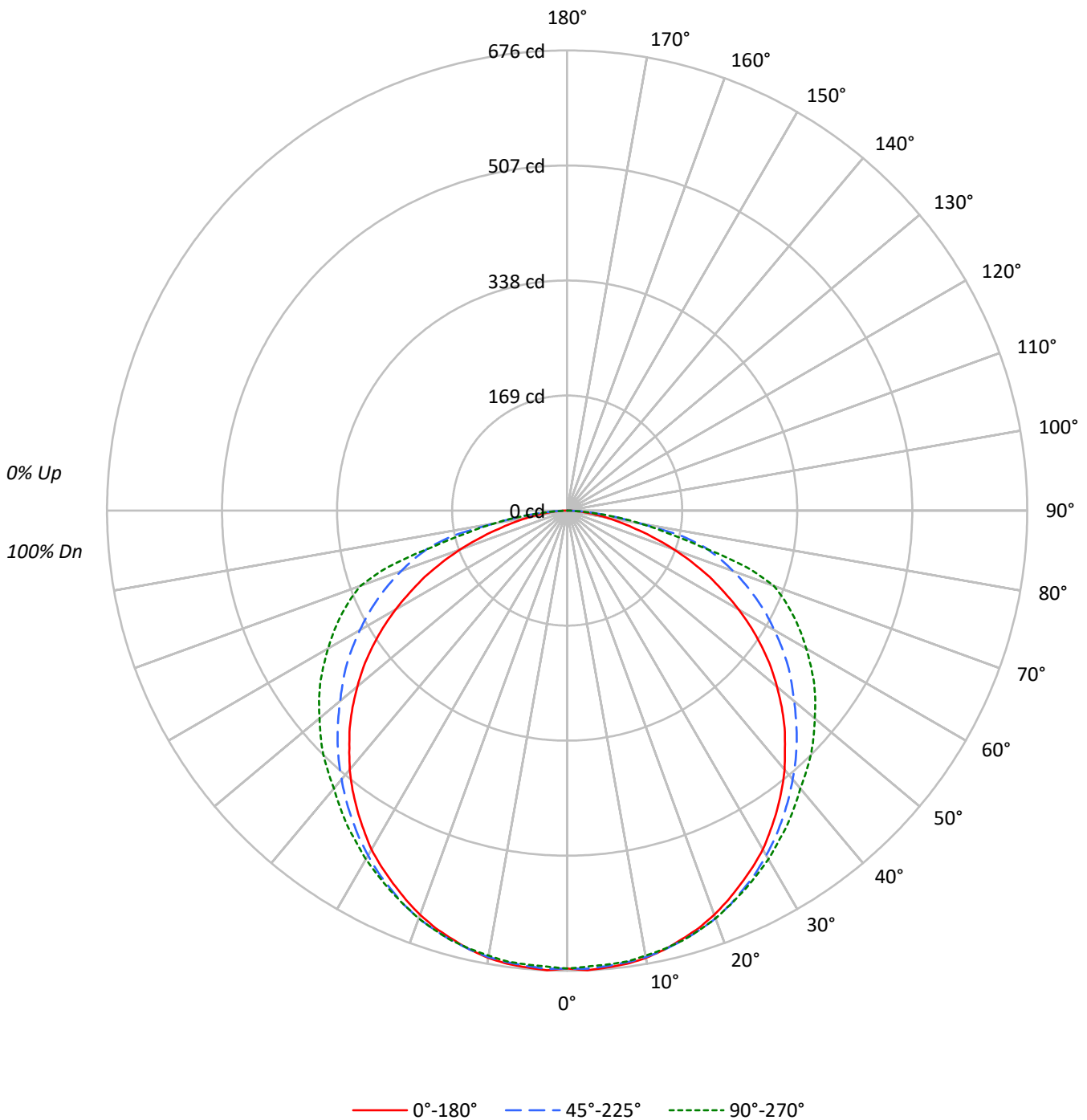
Input Watts (W): 22.828338
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	905	905	905
5°	910	907	904
10°	912	910	907
15°	908	911	911
20°	905	913	913
25°	898	910	914
30°	893	909	919
35°	883	906	926
40°	873	905	936
45°	860	908	964
50°	842	911	994
55°	820	928	1039
60°	784	946	1091
65°	735	976	1169
70°	657	1020	1271
75°	543	1091	1051
80°	443	843	852
85°	357	560	526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.0
10°-20°	184.4	8.7
20°-30°	281.8	13.2
30°-40°	344.6	16.2
40°-50°	368.7	17.3
50°-60°	353.1	16.6
60°-70°	298.7	14.0
70°-80°	189.3	8.9
80°-90°	43.6	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°	530.0	24.9
0°-40°	874.6	41.1
0°-60°	1596.4	75.0
0°-90°	2128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	674	670	672	670	669	64
15°	652	651	654	654	654	184
25°	605	605	613	616	616	279
35°	538	541	552	560	564	336
45°	452	460	477	497	507	348
55°	350	360	396	429	443	312
65°	231	253	307	348	367	227
75°	104	147	210	209	202	114
85°	23	35	36	33	34	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	672.7	672.7	672.7	672.7	672.7
2.5°	676.0	672.7	673.8	672.7	670.5
5°	673.8	670.5	671.6	670.5	669.4
7.5°	671.6	668.3	669.4	668.3	668.3
10°	667.2	663.9	666.1	665.0	663.9
12.5°	660.6	658.4	660.6	659.5	659.5
15°	651.8	650.7	654.0	654.0	654.0
17.5°	643.0	641.9	646.3	646.3	646.3
20°	632.0	630.9	637.5	637.5	637.5
22.5°	618.8	617.7	626.5	626.5	626.5
25°	604.6	604.6	613.3	615.5	615.5
27.5°	590.3	590.3	600.2	603.5	603.5
30°	574.9	574.9	584.8	589.2	591.4
32.5°	556.2	558.4	569.4	574.9	577.1
35°	537.5	540.8	551.8	559.5	563.9
37.5°	517.7	521.0	534.2	543.0	548.5
40°	496.8	501.2	515.5	526.5	533.1
42.5°	473.7	480.3	496.8	511.1	519.9
45°	451.8	459.5	477.0	496.8	506.7
47.5°	427.6	436.4	456.2	481.4	491.3
50°	402.3	411.1	435.3	463.9	474.8
52.5°	377.0	386.9	415.5	446.3	459.5
55°	349.5	360.5	395.7	428.7	443.0
57.5°	321.0	334.2	373.7	408.9	424.3
60°	291.3	307.8	351.7	389.1	405.6
62.5°	260.5	280.3	329.8	369.3	386.9
65°	230.8	252.8	306.7	348.4	367.1
67.5°	199.0	226.4	283.6	328.7	346.2
70°	167.1	199.0	259.4	305.6	323.2
72.5°	135.2	173.7	235.2	277.0	277.0
75°	104.4	147.3	209.9	208.8	202.2
77.5°	79.1	123.1	172.6	147.3	148.4
80°	57.2	98.9	108.8	108.8	109.9
82.5°	38.5	75.8	70.3	69.2	71.4
85°	23.1	35.2	36.3	33.0	34.1
87.5°	11.0	12.1	9.9	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)