

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: P263449

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263449
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-L92765-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: 1718.0 lumens
Efficiency: N/A
Efficacy: 78.6 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

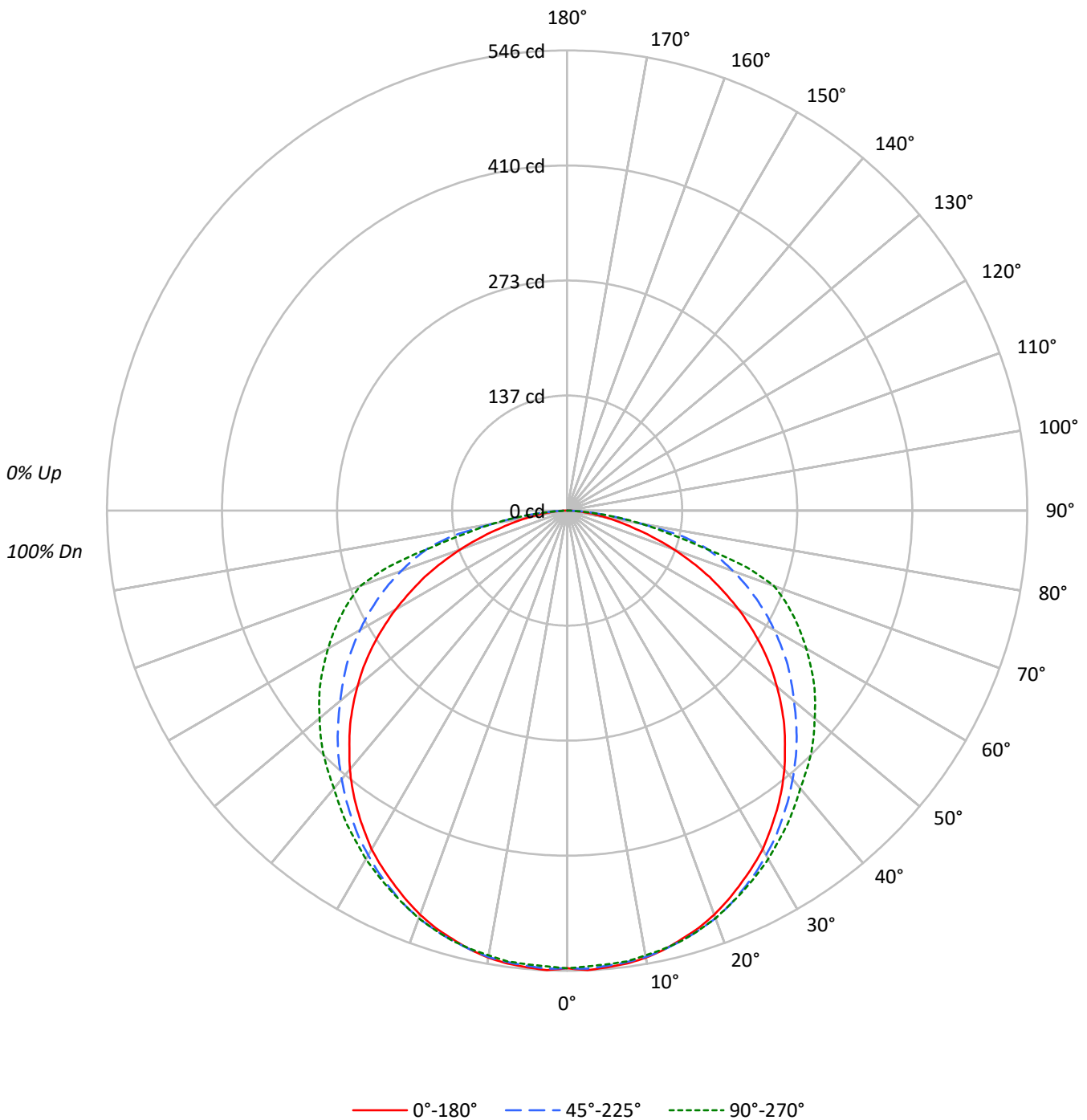
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	731	731	731
5°	735	732	730
10°	736	735	732
15°	733	735	735
20°	731	737	737
25°	725	735	738
30°	721	733	742
35°	713	732	748
40°	704	731	756
45°	694	733	778
50°	680	736	803
55°	662	749	839
60°	633	764	881
65°	593	788	944
70°	531	824	1026
75°	438	881	849
80°	357	681	687
85°	287	452	425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	3.0
10°-20°	148.8	8.7
20°-30°	227.5	13.2
30°-40°	278.2	16.2
40°-50°	297.7	17.3
50°-60°	285.1	16.6
60°-70°	241.1	14.0
70°-80°	152.9	8.9
80°-90°	35.2	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°	427.9	24.9
0°-40°	706.1	41.1
0°-60°	1288.8	75.0
0°-90°	1718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	544	541	542	541	540	52
15°	526	525	528	528	528	149
25°	488	488	495	497	497	225
35°	434	437	446	452	455	271
45°	365	371	385	401	409	281
55°	282	291	320	346	358	252
65°	186	204	248	281	296	184
75°	84	119	170	169	163	92
85°	19	28	29	27	28	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	543.1	543.1	543.1	543.1	543.1
2.5°	545.8	543.1	544.0	543.1	541.3
5°	544.0	541.3	542.2	541.3	540.4
7.5°	542.2	539.5	540.4	539.5	539.5
10°	538.7	536.0	537.8	536.9	536.0
12.5°	533.3	531.6	533.3	532.4	532.4
15°	526.2	525.3	528.0	528.0	528.0
17.5°	519.1	518.2	521.8	521.8	521.8
20°	510.3	509.4	514.7	514.7	514.7
22.5°	499.6	498.7	505.8	505.8	505.8
25°	488.1	488.1	495.2	496.9	496.9
27.5°	476.5	476.5	484.5	487.2	487.2
30°	464.1	464.1	472.1	475.6	477.4
32.5°	449.0	450.8	459.7	464.1	465.9
35°	433.9	436.6	445.5	451.7	455.2
37.5°	418.0	420.6	431.3	438.4	442.8
40°	401.1	404.7	416.2	425.1	430.4
42.5°	382.5	387.8	401.1	412.6	419.7
45°	364.7	370.9	385.1	401.1	409.1
47.5°	345.2	352.3	368.3	388.7	396.7
50°	324.8	331.9	351.4	374.5	383.4
52.5°	304.4	312.4	335.4	360.3	370.9
55°	282.2	291.1	319.5	346.1	357.6
57.5°	259.1	269.8	301.7	330.1	342.5
60°	235.2	248.5	284.0	314.1	327.5
62.5°	210.3	226.3	266.2	298.2	312.4
65°	186.4	204.1	247.6	281.3	296.4
67.5°	160.6	182.8	229.0	265.3	279.5
70°	134.9	160.6	209.4	246.7	260.9
72.5°	109.2	140.2	189.9	223.6	223.6
75°	84.3	118.9	169.5	168.6	163.3
77.5°	63.9	99.4	139.3	118.9	119.8
80°	46.1	79.9	87.9	87.9	88.7
82.5°	31.1	61.2	56.8	55.9	57.7
85°	18.6	28.4	29.3	26.6	27.5
87.5°	8.9	9.8	8.0	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)