

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: P263316

Luminaire Tested: **24CZ-LD5-30SE-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263316
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-L82765-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: 2040.0 lumens
Efficiency: N/A
Efficacy: 92.2 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

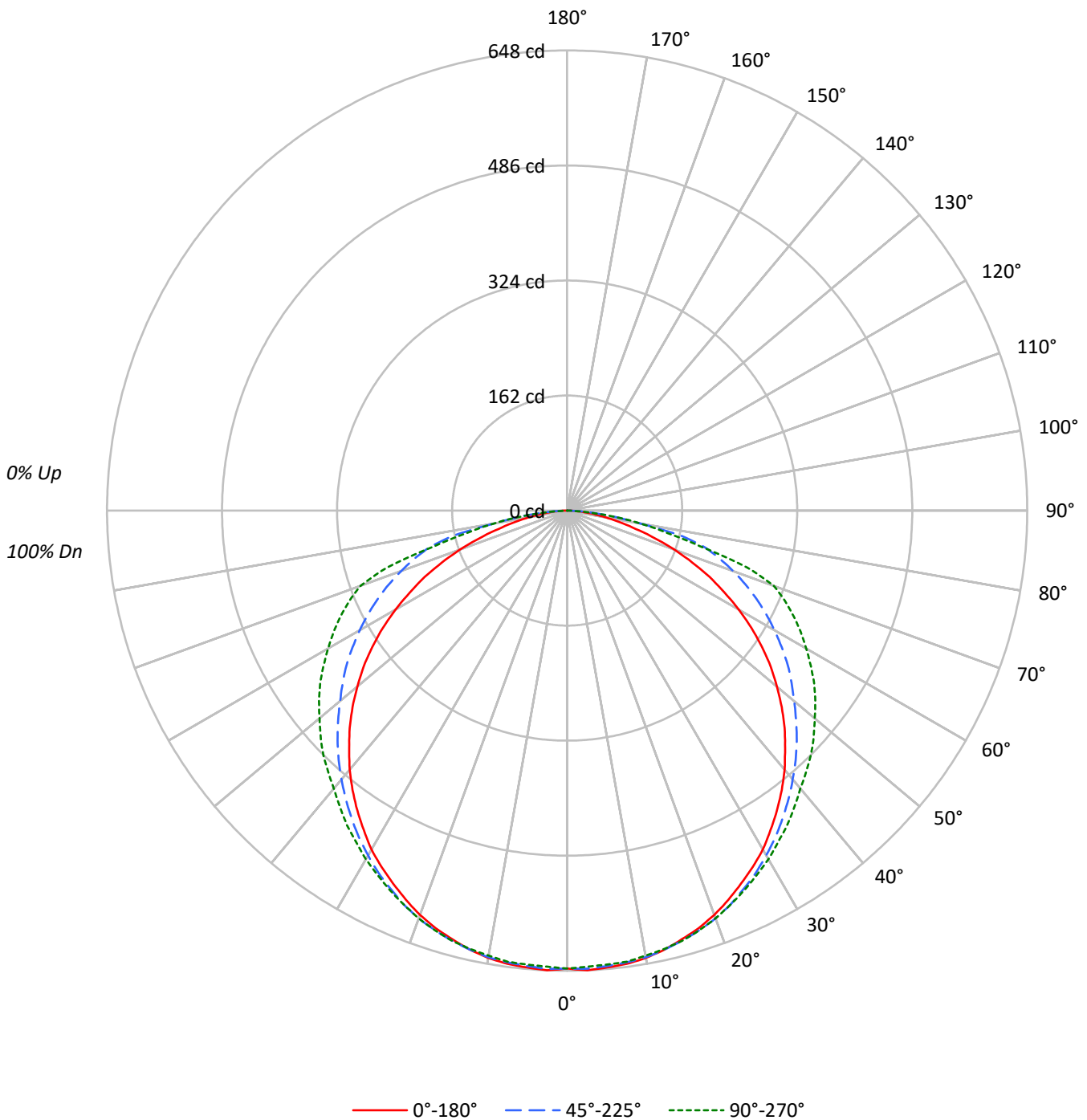
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	868	868	868
5°	872	870	867
10°	874	872	870
15°	870	873	873
20°	868	875	875
25°	860	873	876
30°	856	871	881
35°	846	869	888
40°	837	868	898
45°	824	870	924
50°	807	873	953
55°	786	890	996
60°	751	907	1046
65°	705	936	1120
70°	630	978	1219
75°	520	1046	1008
80°	425	808	817
85°	341	537	505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	3.0
10°-20°	176.7	8.7
20°-30°	270.1	13.2
30°-40°	330.4	16.2
40°-50°	353.5	17.3
50°-60°	338.5	16.6
60°-70°	286.3	14.0
70°-80°	181.5	8.9
80°-90°	41.7	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°	508.1	24.9
0°-40°	838.5	41.1
0°-60°	1530.4	75.0
0°-90°	2040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	646	643	644	643	642	61
15°	625	624	627	627	627	176
25°	580	580	588	590	590	267
35°	515	518	529	536	541	322
45°	433	440	457	476	486	334
55°	335	346	379	411	425	299
65°	221	242	294	334	352	218
75°	100	141	201	200	194	109
85°	22	34	35	32	33	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	644.9	644.9	644.9	644.9	644.9
2.5°	648.0	644.9	645.9	644.9	642.8
5°	645.9	642.8	643.8	642.8	641.7
7.5°	643.8	640.7	641.7	640.7	640.7
10°	639.6	636.5	638.6	637.5	636.5
12.5°	633.3	631.2	633.3	632.2	632.2
15°	624.9	623.8	627.0	627.0	627.0
17.5°	616.4	615.4	619.6	619.6	619.6
20°	605.9	604.8	611.2	611.2	611.2
22.5°	593.2	592.2	600.6	600.6	600.6
25°	579.6	579.6	588.0	590.1	590.1
27.5°	565.9	565.9	575.3	578.5	578.5
30°	551.1	551.1	560.6	564.8	566.9
32.5°	533.2	535.3	545.8	551.1	553.2
35°	515.3	518.4	529.0	536.3	540.6
37.5°	496.3	499.5	512.1	520.5	525.8
40°	476.3	480.5	494.2	504.7	511.1
42.5°	454.2	460.5	476.3	490.0	498.4
45°	433.1	440.5	457.3	476.3	485.8
47.5°	409.9	418.3	437.3	461.5	471.0
50°	385.7	394.1	417.3	444.7	455.2
52.5°	361.4	370.9	398.3	427.8	440.5
55°	335.1	345.6	379.3	411.0	424.7
57.5°	307.7	320.3	358.3	392.0	406.7
60°	279.2	295.0	337.2	373.0	388.8
62.5°	249.7	268.7	316.1	354.1	370.9
65°	221.3	242.4	294.0	334.0	351.9
67.5°	190.7	217.1	271.9	315.1	331.9
70°	160.2	190.7	248.7	292.9	309.8
72.5°	129.6	166.5	225.5	265.5	265.5
75°	100.1	141.2	201.3	200.2	193.9
77.5°	75.9	118.0	165.4	141.2	142.3
80°	54.8	94.8	104.3	104.3	105.4
82.5°	36.9	72.7	67.4	66.4	68.5
85°	22.1	33.7	34.8	31.6	32.7
87.5°	10.5	11.6	9.5	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)