

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: P263224

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263224
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-LD5-30-SQP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1985.0 lumens
Efficiency: N/A
Efficacy: 100.7 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

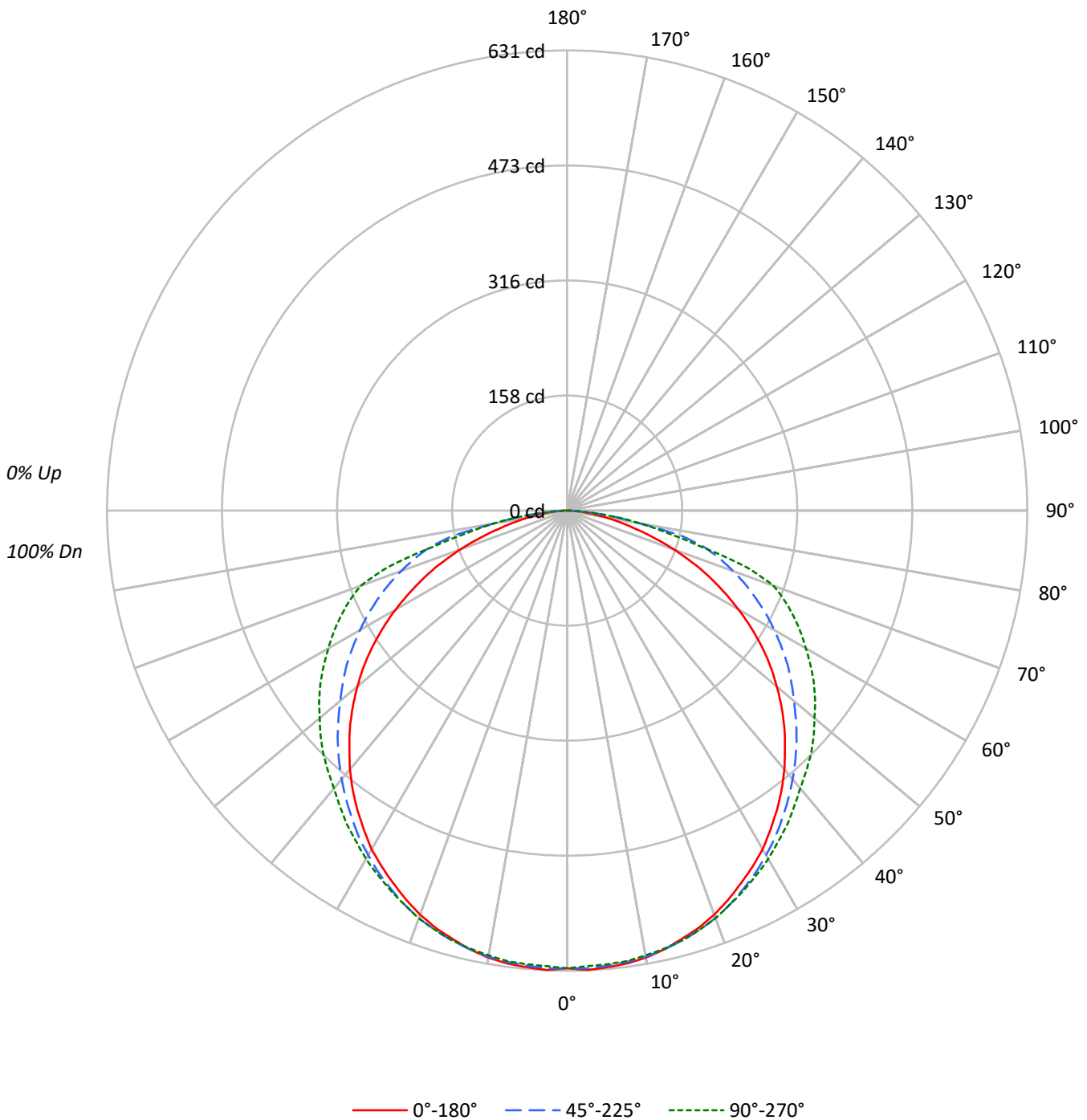
Input Watts (W): 19.716
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	844	844	844
5°	849	846	843
10°	850	849	846
15°	847	850	850
20°	844	852	852
25°	837	849	852
30°	833	848	857
35°	824	845	864
40°	814	845	873
45°	802	847	899
50°	786	850	927
55°	765	866	969
60°	731	883	1018
65°	685	911	1090
70°	613	952	1186
75°	506	1018	981
80°	413	786	794
85°	332	522	491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.0
10°-20°	172.0	8.7
20°-30°	262.8	13.2
30°-40°	321.4	16.2
40°-50°	344.0	17.3
50°-60°	329.4	16.6
60°-70°	278.6	14.0
70°-80°	176.6	8.9
80°-90°	40.6	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°	494.4	24.9
0°-40°	815.8	41.1
0°-60°	1489.2	75.0
0°-90°	1985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	628	625	626	625	624	60
15°	608	607	610	610	610	172
25°	564	564	572	574	574	260
35°	501	504	515	522	526	314
45°	421	429	445	463	473	325
55°	326	336	369	400	413	291
65°	215	236	286	325	342	212
75°	97	137	196	195	189	106
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°	627.5	627.5	627.5	627.5	627.5
2.5°	630.6	627.5	628.5	627.5	625.4
5°	628.5	625.4	626.5	625.4	624.4
7.5°	626.5	623.4	624.4	623.4	623.4
10°	622.4	619.3	621.3	620.3	619.3
12.5°	616.2	614.2	616.2	615.2	615.2
15°	608.0	607.0	610.1	610.1	610.1
17.5°	599.8	598.8	602.9	602.9	602.9
20°	589.6	588.5	594.7	594.7	594.7
22.5°	577.3	576.2	584.4	584.4	584.4
25°	563.9	563.9	572.1	574.2	574.2
27.5°	550.6	550.6	559.8	562.9	562.9
30°	536.2	536.2	545.5	549.6	551.6
32.5°	518.8	520.9	531.1	536.2	538.3
35°	501.4	504.5	514.7	521.9	526.0
37.5°	482.9	486.0	498.3	506.5	511.6
40°	463.4	467.5	480.9	491.1	497.3
42.5°	441.9	448.1	463.4	476.8	485.0
45°	421.4	428.6	445.0	463.4	472.7
47.5°	398.8	407.1	425.5	449.1	458.3
50°	375.3	383.5	406.0	432.7	442.9
52.5°	351.7	360.9	387.6	416.3	428.6
55°	326.1	336.3	369.1	399.9	413.2
57.5°	299.4	311.7	348.6	381.4	395.8
60°	271.7	287.1	328.1	363.0	378.3
62.5°	243.0	261.5	307.6	344.5	360.9
65°	215.3	235.8	286.1	325.0	342.5
67.5°	185.6	211.2	264.5	306.6	323.0
70°	155.8	185.6	242.0	285.0	301.4
72.5°	126.1	162.0	219.4	258.4	258.4
75°	97.4	137.4	195.8	194.8	188.7
77.5°	73.8	114.8	161.0	137.4	138.4
80°	53.3	92.3	101.5	101.5	102.5
82.5°	35.9	70.7	65.6	64.6	66.6
85°	21.5	32.8	33.8	30.8	31.8
87.5°	10.3	11.3	9.2	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)