

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: P263223

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263223
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-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1918.0 lumens
Efficiency: N/A
Efficacy: 98.2 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

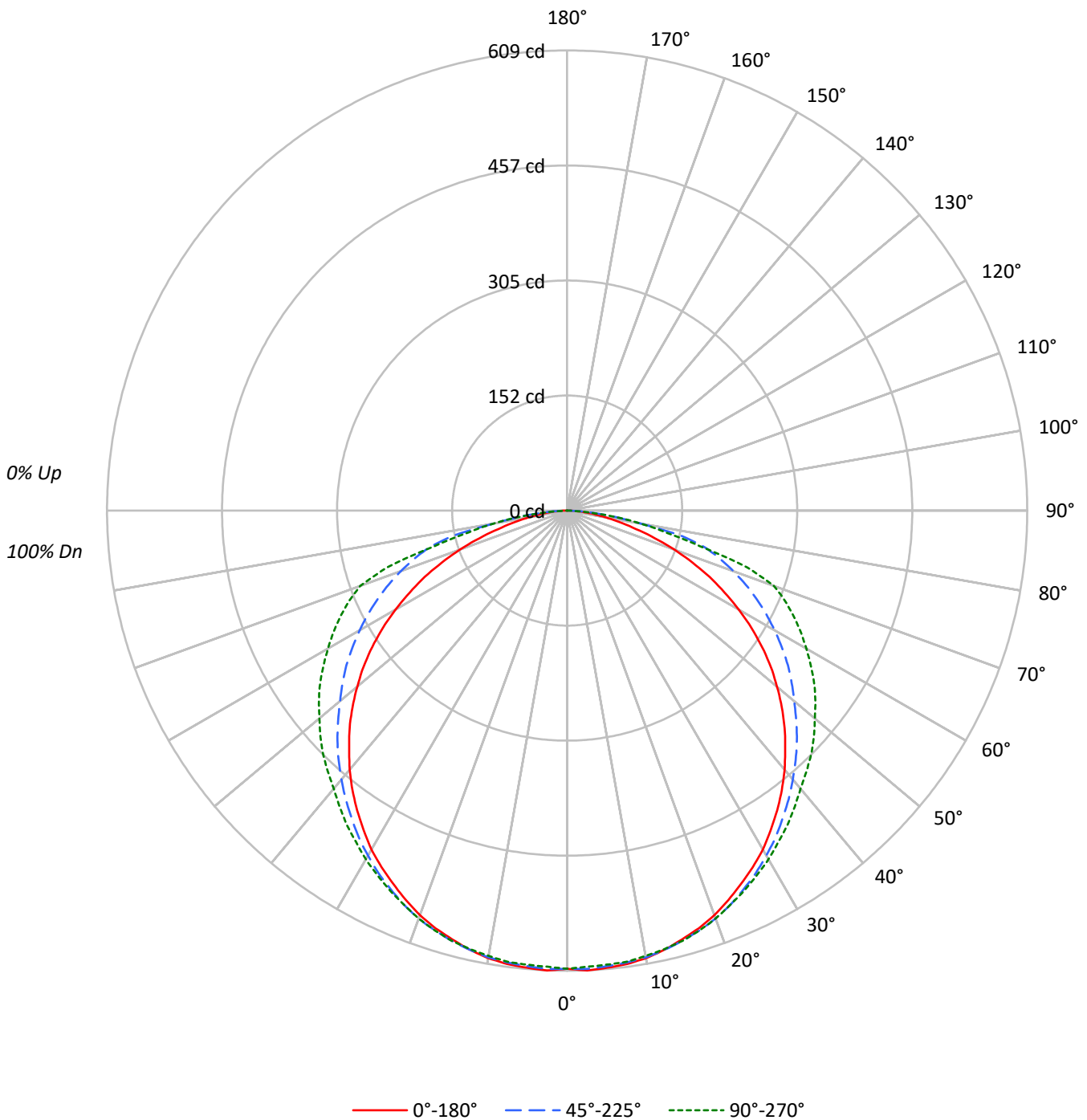
Input Watts (W): 19.53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	816	816	816
5°	820	818	815
10°	822	820	818
15°	818	821	821
20°	816	823	823
25°	809	821	824
30°	805	819	828
35°	796	817	835
40°	787	816	844
45°	775	818	869
50°	759	821	896
55°	739	837	937
60°	706	853	984
65°	662	880	1053
70°	592	920	1146
75°	489	984	948
80°	399	760	768
85°	321	505	474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	3.0
10°-20°	166.2	8.7
20°-30°	254.0	13.2
30°-40°	310.6	16.2
40°-50°	332.3	17.3
50°-60°	318.2	16.6
60°-70°	269.2	14.0
70°-80°	170.7	8.9
80°-90°	39.3	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°	477.7	24.9
0°-40°	788.3	41.1
0°-60°	1438.9	75.0
0°-90°	1918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	607	604	605	604	603	58
15°	588	586	590	590	590	166
25°	545	545	553	555	555	251
35°	484	487	497	504	508	303
45°	407	414	430	448	457	314
55°	315	325	357	386	399	281
65°	208	228	276	314	331	205
75°	94	133	189	188	182	102
85°	21	32	33	30	31	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	606.3	606.3	606.3	606.3	606.3
2.5°	609.3	606.3	607.3	606.3	604.3
5°	607.3	604.3	605.3	604.3	603.3
7.5°	605.3	602.4	603.3	602.4	602.4
10°	601.4	598.4	600.4	599.4	598.4
12.5°	595.4	593.4	595.4	594.4	594.4
15°	587.5	586.5	589.5	589.5	589.5
17.5°	579.6	578.6	582.5	582.5	582.5
20°	569.7	568.7	574.6	574.6	574.6
22.5°	557.8	556.8	564.7	564.7	564.7
25°	544.9	544.9	552.8	554.8	554.8
27.5°	532.0	532.0	540.9	543.9	543.9
30°	518.1	518.1	527.1	531.0	533.0
32.5°	501.3	503.3	513.2	518.1	520.1
35°	484.5	487.4	497.3	504.3	508.2
37.5°	466.6	469.6	481.5	489.4	494.4
40°	447.8	451.8	464.6	474.6	480.5
42.5°	427.0	432.9	447.8	460.7	468.6
45°	407.2	414.1	430.0	447.8	456.7
47.5°	385.4	393.3	411.1	433.9	442.8
50°	362.6	370.5	392.3	418.1	428.0
52.5°	339.8	348.7	374.5	402.2	414.1
55°	315.0	325.0	356.7	386.4	399.3
57.5°	289.3	301.2	336.8	368.5	382.4
60°	262.5	277.4	317.0	350.7	365.6
62.5°	234.8	252.6	297.2	332.9	348.7
65°	208.0	227.9	276.4	314.1	330.9
67.5°	179.3	204.1	255.6	296.2	312.1
70°	150.6	179.3	233.8	275.4	291.3
72.5°	121.9	156.5	212.0	249.7	249.7
75°	94.1	132.8	189.2	188.2	182.3
77.5°	71.3	111.0	155.5	132.8	133.7
80°	51.5	89.2	98.1	98.1	99.1
82.5°	34.7	68.4	63.4	62.4	64.4
85°	20.8	31.7	32.7	29.7	30.7
87.5°	9.9	10.9	8.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)