

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: P263230

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263230
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2124.0 lumens
Efficiency: N/A
Efficacy: 103.8 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

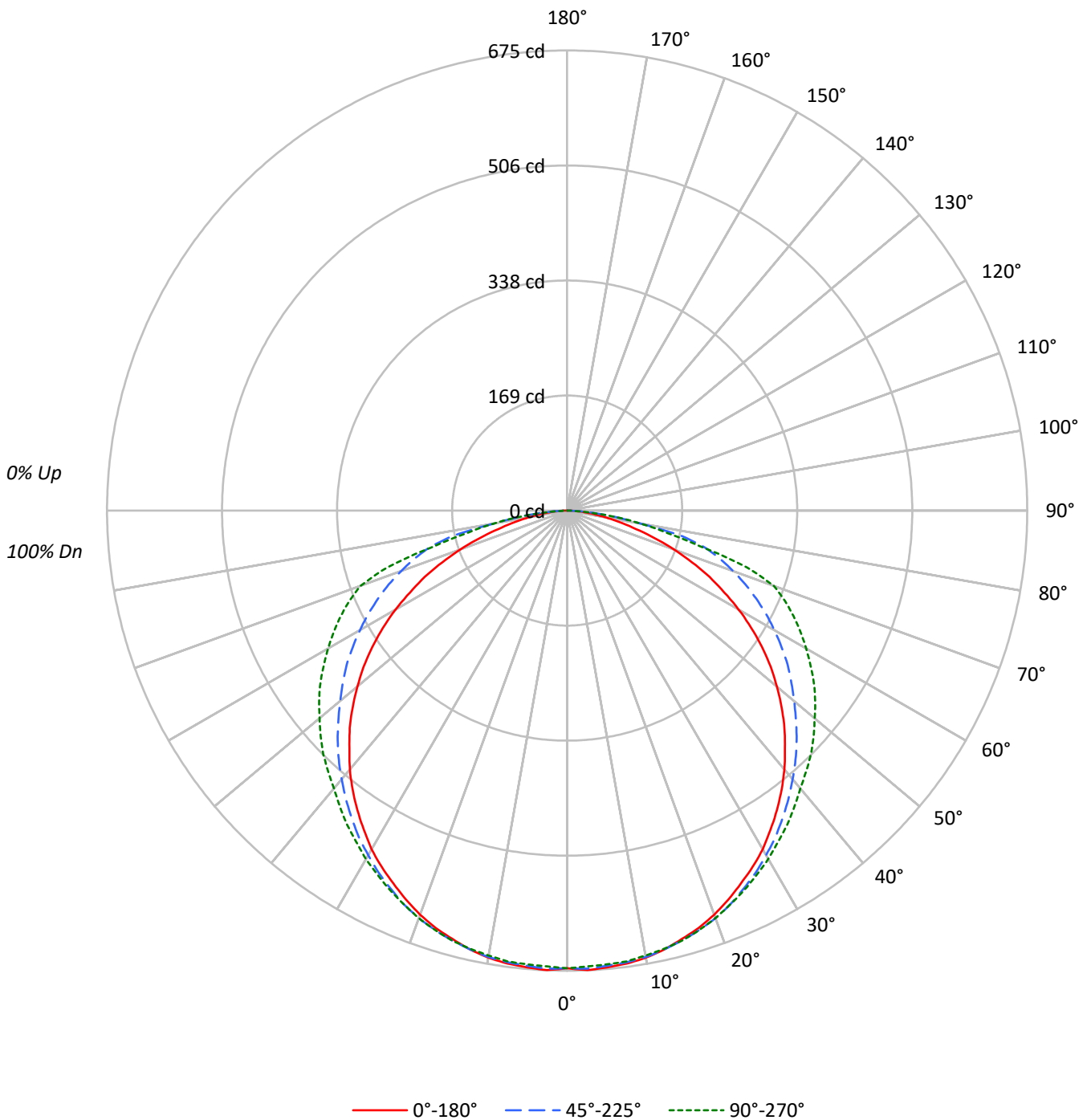
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	903	903	903
5°	908	905	902
10°	910	908	905
15°	906	909	909
20°	903	911	911
25°	896	909	912
30°	891	907	917
35°	881	905	924
40°	871	904	935
45°	858	906	962
50°	840	909	992
55°	818	927	1037
60°	782	945	1089
65°	734	975	1167
70°	656	1018	1269
75°	542	1089	1050
80°	442	841	850
85°	355	559	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	3.0
10°-20°	184.0	8.7
20°-30°	281.2	13.2
30°-40°	344.0	16.2
40°-50°	368.0	17.3
50°-60°	352.4	16.6
60°-70°	298.1	14.0
70°-80°	189.0	8.9
80°-90°	43.5	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°	529.0	24.9
0°-40°	873.0	41.1
0°-60°	1593.4	75.0
0°-90°	2124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2124.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	672	669	670	669	668	64
15°	651	650	653	653	653	184
25°	603	603	612	614	614	278
35°	536	540	551	558	563	336
45°	451	459	476	496	506	347
55°	349	360	395	428	442	311
65°	230	252	306	348	366	227
75°	104	147	210	208	202	113
85°	23	35	36	33	34	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	671.4	671.4	671.4	671.4	671.4
2.5°	674.7	671.4	672.5	671.4	669.2
5°	672.5	669.2	670.3	669.2	668.1
7.5°	670.3	667.0	668.1	667.0	667.0
10°	666.0	662.7	664.9	663.8	662.7
12.5°	659.4	657.2	659.4	658.3	658.3
15°	650.6	649.5	652.8	652.8	652.8
17.5°	641.8	640.7	645.1	645.1	645.1
20°	630.8	629.7	636.3	636.3	636.3
22.5°	617.7	616.6	625.4	625.4	625.4
25°	603.4	603.4	612.2	614.4	614.4
27.5°	589.2	589.2	599.0	602.3	602.3
30°	573.8	573.8	583.7	588.1	590.2
32.5°	555.1	557.3	568.3	573.8	576.0
35°	536.5	539.8	550.8	558.4	562.8
37.5°	516.7	520.0	533.2	542.0	547.5
40°	495.9	500.3	514.5	525.5	532.1
42.5°	472.9	479.4	495.9	510.2	518.9
45°	450.9	458.6	476.1	495.9	505.8
47.5°	426.8	435.6	455.3	480.5	490.4
50°	401.5	410.3	434.5	463.0	474.0
52.5°	376.3	386.2	414.7	445.4	458.6
55°	348.9	359.9	395.0	427.9	442.1
57.5°	320.4	333.5	373.0	408.1	423.5
60°	290.7	307.2	351.1	388.4	404.8
62.5°	260.0	279.8	329.1	368.6	386.2
65°	230.4	252.3	306.1	347.8	366.4
67.5°	198.6	226.0	283.1	328.0	345.6
70°	166.8	198.6	258.9	305.0	322.6
72.5°	134.9	173.3	234.8	276.5	276.5
75°	104.2	147.0	209.5	208.5	201.9
77.5°	79.0	122.9	172.2	147.0	148.1
80°	57.1	98.7	108.6	108.6	109.7
82.5°	38.4	75.7	70.2	69.1	71.3
85°	23.0	35.1	36.2	32.9	34.0
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)