

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: P263074

Luminaire Tested: **24CZ-LD5-30-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263074
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-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2134.0 lumens
Efficiency: N/A
Efficacy: 106.3 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

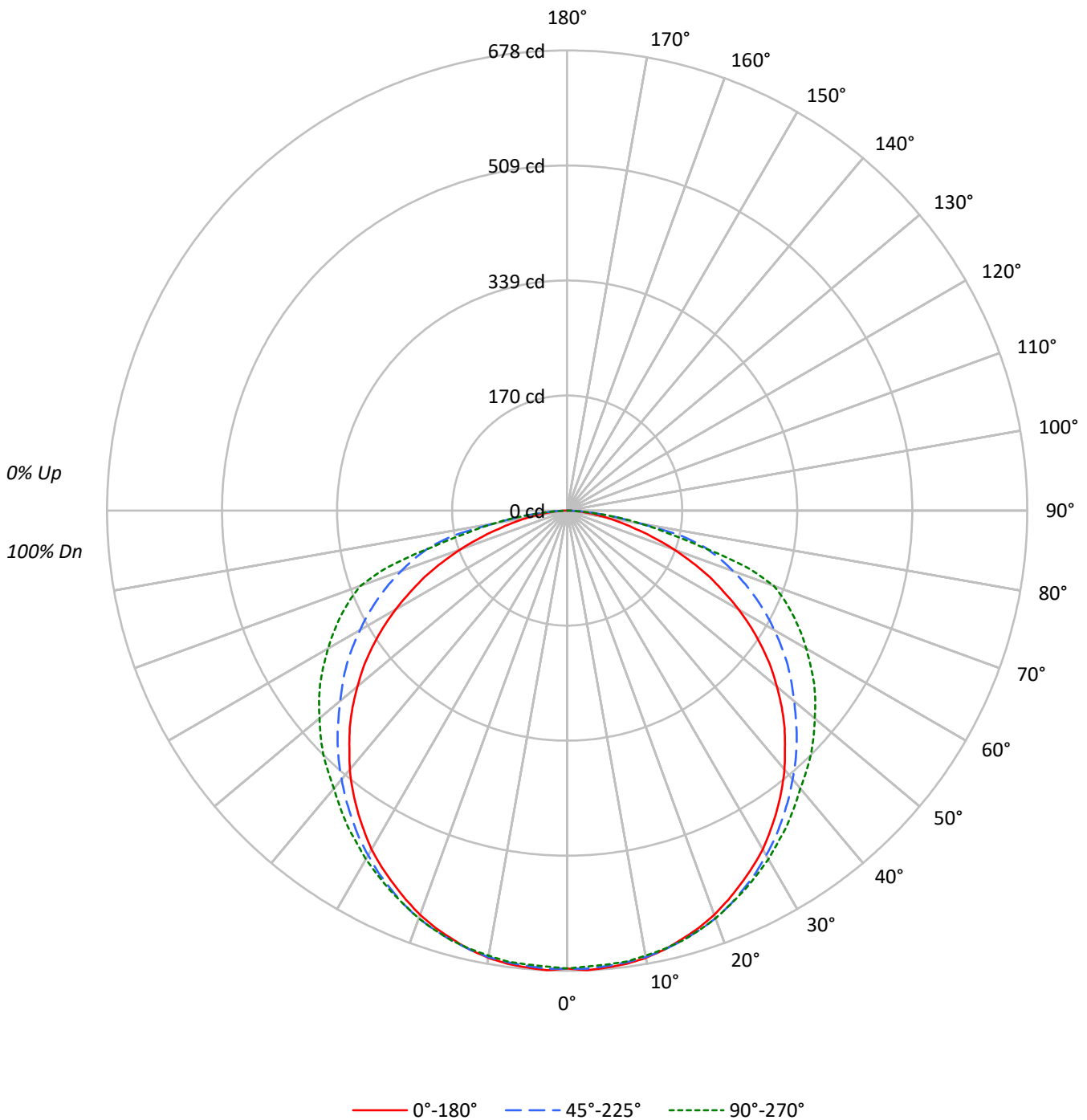
Input Watts (W): 20.074329
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	908	908	908
5°	913	910	907
10°	914	913	910
15°	911	914	914
20°	908	915	915
25°	900	913	916
30°	896	911	921
35°	885	909	929
40°	875	908	939
45°	862	910	967
50°	844	914	997
55°	822	931	1042
60°	786	949	1094
65°	737	979	1172
70°	659	1023	1275
75°	544	1094	1054
80°	444	845	854
85°	357	562	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	3.0
10°-20°	184.9	8.7
20°-30°	282.6	13.2
30°-40°	345.6	16.2
40°-50°	369.8	17.3
50°-60°	354.1	16.6
60°-70°	299.5	14.0
70°-80°	189.9	8.9
80°-90°	43.7	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°	531.5	24.9
0°-40°	877.1	41.1
0°-60°	1600.9	75.0
0°-90°	2134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	676	672	674	672	671	64
15°	654	653	656	656	656	185
25°	606	606	615	617	617	280
35°	539	542	553	561	566	337
45°	453	461	478	498	508	349
55°	350	362	397	430	444	313
65°	232	254	308	349	368	228
75°	105	148	210	209	203	114
85°	23	35	36	33	34	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	674.6	674.6	674.6	674.6	674.6
2.5°	677.9	674.6	675.7	674.6	672.4
5°	675.7	672.4	673.5	672.4	671.3
7.5°	673.5	670.2	671.3	670.2	670.2
10°	669.1	665.8	668.0	666.9	665.8
12.5°	662.5	660.3	662.5	661.4	661.4
15°	653.7	652.6	655.9	655.9	655.9
17.5°	644.8	643.7	648.1	648.1	648.1
20°	633.8	632.7	639.3	639.3	639.3
22.5°	620.6	619.5	628.3	628.3	628.3
25°	606.3	606.3	615.1	617.3	617.3
27.5°	591.9	591.9	601.8	605.2	605.2
30°	576.5	576.5	586.4	590.8	593.0
32.5°	557.8	560.0	571.0	576.5	578.7
35°	539.0	542.3	553.3	561.1	565.5
37.5°	519.2	522.5	535.7	544.5	550.0
40°	498.2	502.6	517.0	528.0	534.6
42.5°	475.1	481.7	498.2	512.6	521.4
45°	453.0	460.8	478.4	498.2	508.2
47.5°	428.8	437.6	457.4	482.8	492.7
50°	403.4	412.3	436.5	465.2	476.2
52.5°	378.1	388.0	416.7	447.5	460.8
55°	350.5	361.5	396.8	429.9	444.2
57.5°	321.9	335.1	374.8	410.0	425.5
60°	292.1	308.6	352.7	390.2	406.7
62.5°	261.2	281.1	330.7	370.4	388.0
65°	231.5	253.5	307.5	349.4	368.2
67.5°	199.5	227.1	284.4	329.6	347.2
70°	167.5	199.5	260.1	306.4	324.1
72.5°	135.6	174.2	235.9	277.8	277.8
75°	104.7	147.7	210.5	209.4	202.8
77.5°	79.4	123.5	173.1	147.7	148.8
80°	57.3	99.2	109.1	109.1	110.2
82.5°	38.6	76.1	70.5	69.4	71.6
85°	23.1	35.3	36.4	33.1	34.2
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)