

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: P263736

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2141.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

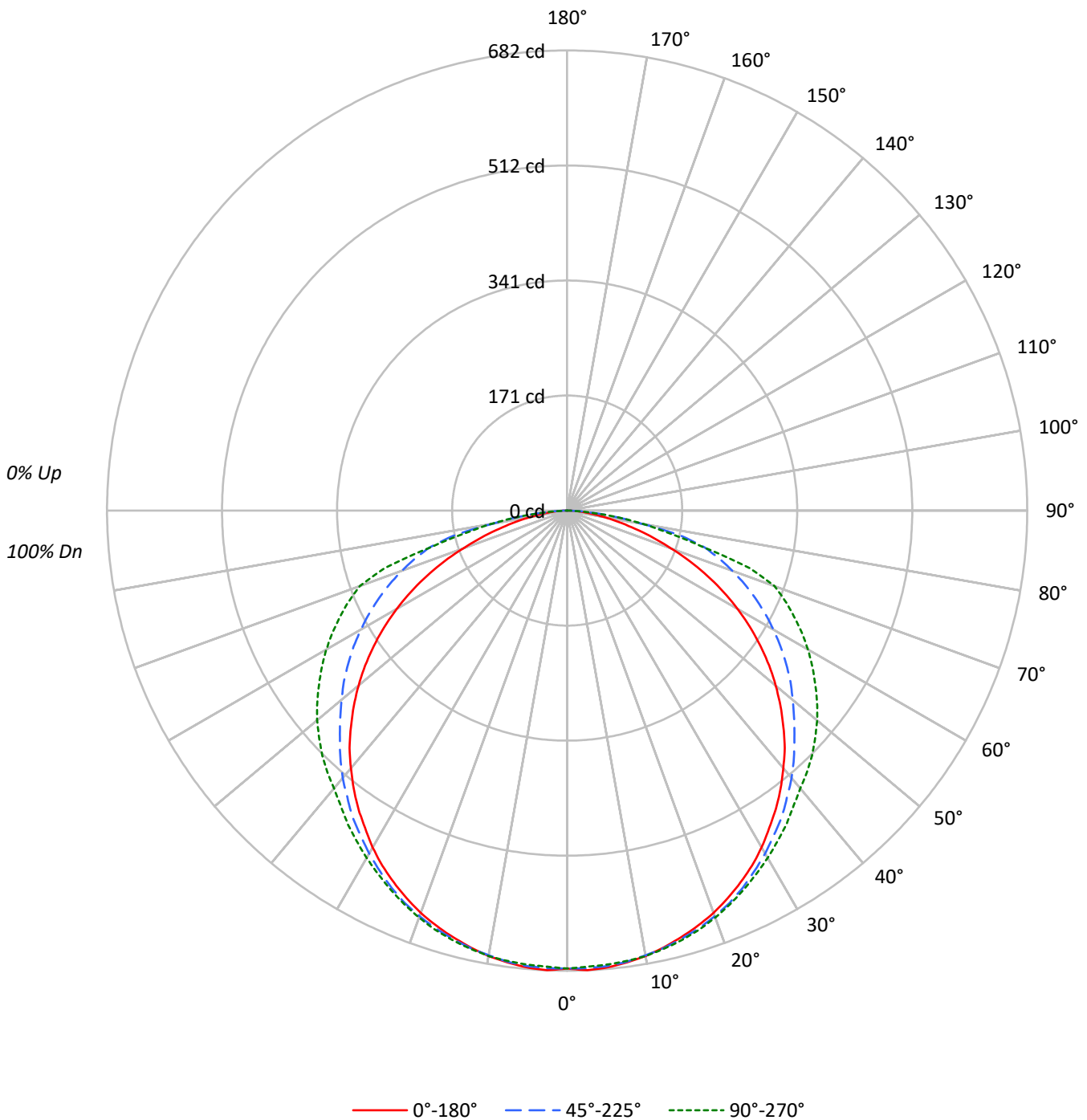
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	913	913	913
5°	918	915	912
10°	916	914	916
15°	912	915	918
20°	909	916	919
25°	903	915	920
30°	896	912	923
35°	886	911	931
40°	876	909	944
45°	862	906	977
50°	845	913	1012
55°	821	930	1053
60°	785	950	1109
65°	732	980	1181
70°	647	1024	1285
75°	542	1096	1079
80°	433	865	898
85°	341	585	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	3.0
10°-20°	185.3	8.7
20°-30°	283.0	13.2
30°-40°	346.0	16.2
40°-50°	370.3	17.3
50°-60°	355.2	16.6
60°-70°	299.9	14.0
70°-80°	191.7	9.0
80°-90°	45.3	2.1
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°	532.6	24.9
0°-40°	878.6	41.0
0°-60°	1604.1	74.9
0°-90°	2141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	679	679	679	679	679	
5°	680	676	678	677	676	65
15°	654	652	657	659	659	185
25°	608	607	616	619	620	280
35°	540	544	554	562	567	337
45°	453	461	476	498	513	350
55°	350	362	396	432	449	312
65°	230	252	308	351	371	227
75°	104	149	211	215	208	112
85°	22	37	38	37	35	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	678.7	678.7	678.7	678.7	678.7
2.5°	681.9	677.7	678.7	678.7	676.6
5°	679.8	675.6	677.7	676.6	675.6
7.5°	675.6	672.4	674.5	674.5	673.4
10°	670.3	667.1	669.2	670.3	670.3
12.5°	662.9	660.8	664.0	664.0	665.0
15°	654.5	652.4	656.6	658.7	658.7
17.5°	645.0	643.9	649.2	650.3	651.3
20°	634.5	633.4	639.7	639.7	641.8
22.5°	621.8	620.8	629.2	629.2	631.3
25°	608.1	607.0	616.5	618.6	619.7
27.5°	593.3	592.3	601.8	604.9	607.0
30°	576.5	576.5	587.0	591.2	594.4
32.5°	557.5	560.7	570.2	576.5	580.7
35°	539.6	543.8	554.4	561.7	567.0
37.5°	519.6	523.8	535.4	544.9	551.2
40°	498.5	503.8	517.5	528.0	537.5
42.5°	477.4	482.7	497.4	513.3	525.9
45°	453.2	460.6	476.4	498.5	513.3
47.5°	428.9	436.3	456.3	483.7	498.5
50°	403.6	412.1	436.3	467.9	483.7
52.5°	377.3	386.8	417.3	451.1	466.9
55°	349.9	361.5	396.3	432.1	449.0
57.5°	321.4	334.1	375.2	413.1	431.0
60°	291.9	307.7	353.1	393.1	412.1
62.5°	261.4	280.3	330.9	372.0	392.1
65°	229.8	251.9	307.7	351.0	371.0
67.5°	197.1	226.6	284.6	329.9	349.9
70°	164.4	199.2	260.3	306.7	326.7
72.5°	133.8	173.9	236.1	279.3	283.5
75°	104.3	148.6	210.8	215.0	207.6
77.5°	78.0	123.3	173.9	154.9	153.9
80°	55.9	99.1	111.7	114.9	115.9
82.5°	36.9	74.8	72.7	74.8	73.8
85°	22.1	36.9	37.9	36.9	34.8
87.5°	10.5	13.7	10.5	9.5	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)