

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: P263785

Luminaire Tested: **24CZ-LD5-30-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263785
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-LD5-30-RDP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2025.0 lumens
Efficiency: N/A
Efficacy: 98.5 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

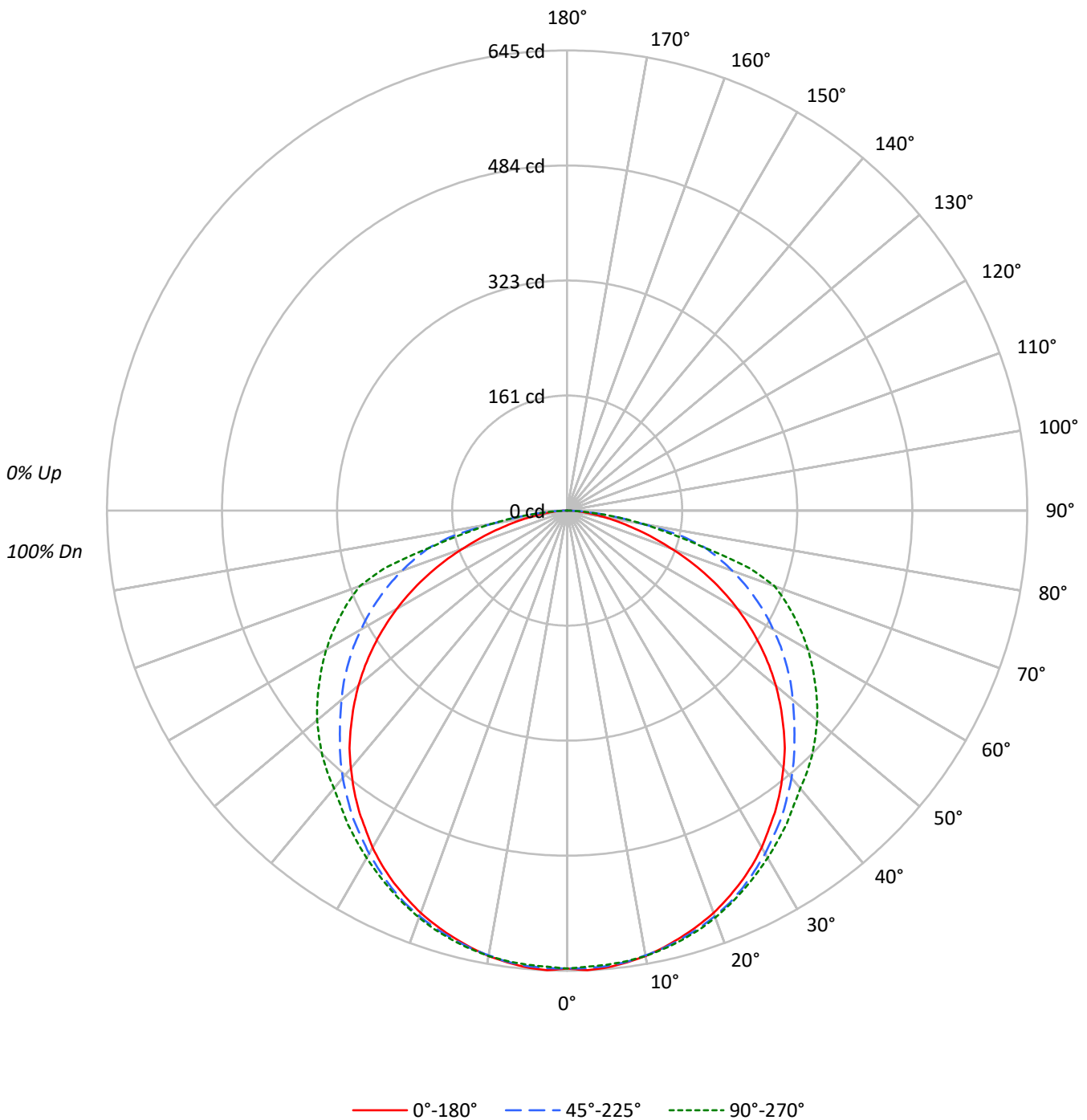
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	864	864	864
5°	868	866	863
10°	866	865	866
15°	862	865	868
20°	859	866	869
25°	854	866	870
30°	847	863	873
35°	838	861	881
40°	828	860	893
45°	816	857	924
50°	799	864	958
55°	776	879	996
60°	743	899	1049
65°	692	927	1117
70°	612	969	1216
75°	513	1037	1021
80°	409	819	849
85°	323	554	508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	3.0
10°-20°	175.2	8.7
20°-30°	267.7	13.2
30°-40°	327.2	16.2
40°-50°	350.2	17.3
50°-60°	336.0	16.6
60°-70°	283.7	14.0
70°-80°	181.3	9.0
80°-90°	42.9	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°	503.8	24.9
0°-40°	831.0	41.0
0°-60°	1517.2	74.9
0°-90°	2025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	643	639	641	640	639	61
15°	619	617	621	623	623	175
25°	575	574	583	585	586	265
35°	510	514	524	531	536	319
45°	429	436	451	472	485	331
55°	331	342	375	409	425	295
65°	217	238	291	332	351	214
75°	99	140	199	203	196	106
85°	21	35	36	35	33	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	641.9	641.9	641.9	641.9	641.9
2.5°	644.9	640.9	641.9	641.9	639.9
5°	642.9	639.0	640.9	639.9	639.0
7.5°	639.0	636.0	638.0	638.0	637.0
10°	634.0	631.0	633.0	634.0	634.0
12.5°	627.0	625.0	628.0	628.0	629.0
15°	619.0	617.0	621.0	623.0	623.0
17.5°	610.0	609.0	614.0	615.0	616.0
20°	600.1	599.1	605.1	605.1	607.1
22.5°	588.1	587.1	595.1	595.1	597.1
25°	575.2	574.2	583.1	585.1	586.1
27.5°	561.2	560.2	569.2	572.2	574.2
30°	545.3	545.3	555.2	559.2	562.2
32.5°	527.3	530.3	539.3	545.3	549.2
35°	510.4	514.4	524.3	531.3	536.3
37.5°	491.4	495.4	506.4	515.3	521.3
40°	471.5	476.5	489.4	499.4	508.4
42.5°	451.6	456.5	470.5	485.4	497.4
45°	428.6	435.6	450.6	471.5	485.4
47.5°	405.7	412.7	431.6	457.5	471.5
50°	381.8	389.8	412.7	442.6	457.5
52.5°	356.9	365.8	394.7	426.6	441.6
55°	330.9	341.9	374.8	408.7	424.6
57.5°	304.0	316.0	354.9	390.7	407.7
60°	276.1	291.1	333.9	371.8	389.8
62.5°	247.2	265.1	313.0	351.9	370.8
65°	217.3	238.2	291.1	331.9	350.9
67.5°	186.4	214.3	269.1	312.0	330.9
70°	155.5	188.4	246.2	290.1	309.0
72.5°	126.6	164.5	223.3	264.2	268.1
75°	98.7	140.5	199.4	203.3	196.4
77.5°	73.8	116.6	164.5	146.5	145.5
80°	52.8	93.7	105.7	108.7	109.6
82.5°	34.9	70.8	68.8	70.8	69.8
85°	20.9	34.9	35.9	34.9	32.9
87.5°	10.0	13.0	10.0	9.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)