

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: P263657

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263657
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-LD5-35-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2543.0 lumens
Efficiency: N/A
Efficacy: 102.4 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

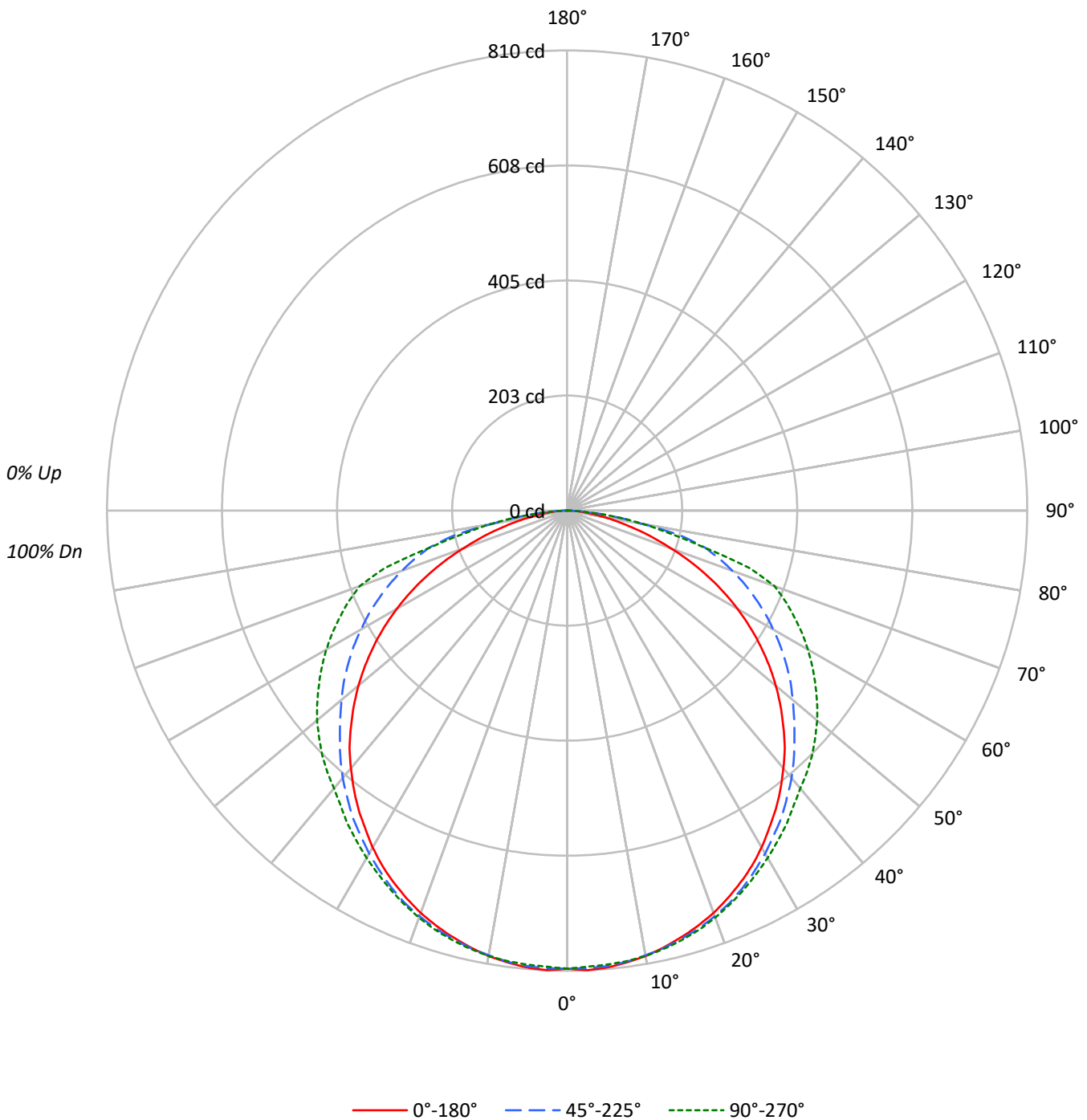
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1085	1085	1085
5°	1090	1087	1084
10°	1088	1086	1088
15°	1083	1086	1090
20°	1079	1088	1091
25°	1072	1087	1093
30°	1064	1083	1097
35°	1053	1081	1106
40°	1040	1079	1121
45°	1024	1077	1160
50°	1003	1085	1203
55°	975	1104	1251
60°	933	1128	1317
65°	869	1164	1403
70°	768	1216	1527
75°	644	1302	1282
80°	514	1028	1067
85°	406	696	638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.0
10°-20°	220.1	8.7
20°-30°	336.1	13.2
30°-40°	410.9	16.2
40°-50°	439.8	17.3
50°-60°	421.9	16.6
60°-70°	356.2	14.0
70°-80°	227.7	9.0
80°-90°	53.8	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°	632.6	24.9
0°-40°	1043.5	41.0
0°-60°	1905.2	74.9
0°-90°	2543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	807	802	805	804	802	77
15°	777	775	780	782	782	219
25°	722	721	732	735	736	333
35°	641	646	658	667	674	401
45°	538	547	566	592	610	415
55°	416	429	471	513	533	371
65°	273	299	366	417	441	269
75°	124	176	250	255	247	133
85°	26	44	45	44	41	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	806.2	806.2	806.2	806.2	806.2
2.5°	809.9	804.9	806.2	806.2	803.6
5°	807.4	802.4	804.9	803.6	802.4
7.5°	802.4	798.6	801.1	801.1	799.9
10°	796.1	792.4	794.9	796.1	796.1
12.5°	787.4	784.9	788.6	788.6	789.9
15°	777.4	774.9	779.9	782.4	782.4
17.5°	766.1	764.8	771.1	772.4	773.6
20°	753.6	752.3	759.8	759.8	762.3
22.5°	738.6	737.3	747.3	747.3	749.8
25°	722.3	721.0	732.3	734.8	736.1
27.5°	704.8	703.5	714.8	718.5	721.0
30°	684.7	684.7	697.2	702.3	706.0
32.5°	662.2	666.0	677.2	684.7	689.7
35°	640.9	645.9	658.4	667.2	673.5
37.5°	617.1	622.1	635.9	647.2	654.7
40°	592.1	598.4	614.6	627.1	638.4
42.5°	567.1	573.3	590.8	609.6	624.6
45°	538.3	547.0	565.8	592.1	609.6
47.5°	509.5	518.2	542.0	574.6	592.1
50°	479.4	489.4	518.2	555.8	574.6
52.5°	448.1	459.4	495.7	535.8	554.5
55°	415.6	429.4	470.7	513.2	533.3
57.5°	381.8	396.8	445.6	490.7	512.0
60°	346.7	365.5	419.3	466.9	489.4
62.5°	310.4	333.0	393.1	441.9	465.7
65°	272.9	299.2	365.5	416.8	440.6
67.5°	234.1	269.1	338.0	391.8	415.6
70°	195.3	236.6	309.2	364.3	388.1
72.5°	159.0	206.5	280.4	331.7	336.7
75°	123.9	176.5	250.4	255.4	246.6
77.5°	92.6	146.5	206.5	184.0	182.8
80°	66.3	117.7	132.7	136.4	137.7
82.5°	43.8	88.9	86.4	88.9	87.6
85°	26.3	43.8	45.1	43.8	41.3
87.5°	12.5	16.3	12.5	11.3	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)