

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: P263747

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263747
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-LD5-35SE-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2571.0 lumens
Efficiency: N/A
Efficacy: 96.0 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

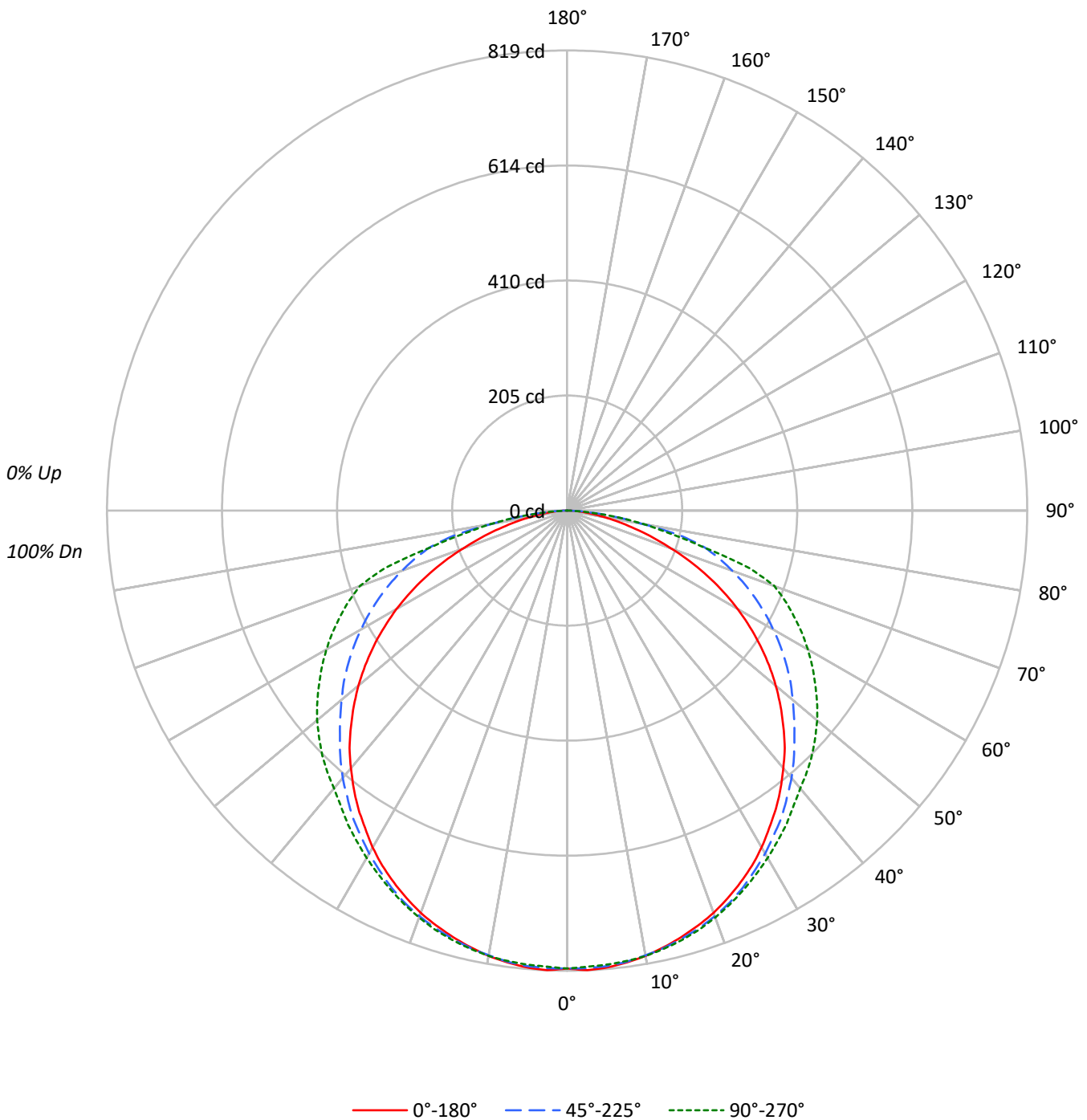
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1097	1097	1097
5°	1103	1099	1096
10°	1100	1098	1100
15°	1095	1098	1102
20°	1091	1100	1104
25°	1084	1099	1105
30°	1076	1095	1109
35°	1064	1093	1118
40°	1051	1091	1134
45°	1036	1088	1173
50°	1015	1097	1216
55°	986	1116	1265
60°	943	1141	1331
65°	878	1176	1418
70°	777	1230	1543
75°	651	1316	1296
80°	520	1040	1079
85°	411	704	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.0
10°-20°	222.5	8.7
20°-30°	339.8	13.2
30°-40°	415.4	16.2
40°-50°	444.7	17.3
50°-60°	426.5	16.6
60°-70°	360.1	14.0
70°-80°	230.2	9.0
80°-90°	54.5	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°	639.6	24.9
0°-40°	1055.0	41.0
0°-60°	1926.3	74.9
0°-90°	2571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	816	811	814	812	811	78
15°	786	783	788	791	791	222
25°	730	729	740	743	744	337
35°	648	653	666	674	681	405
45°	544	553	572	599	616	420
55°	420	434	476	519	539	375
65°	276	302	370	421	446	272
75°	125	178	253	258	249	135
85°	27	44	46	44	42	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	815.0	815.0	815.0	815.0	815.0
2.5°	818.8	813.8	815.0	815.0	812.5
5°	816.3	811.2	813.8	812.5	811.2
7.5°	811.2	807.4	810.0	810.0	808.7
10°	804.9	801.1	803.6	804.9	804.9
12.5°	796.0	793.5	797.3	797.3	798.6
15°	785.9	783.4	788.5	791.0	791.0
17.5°	774.5	773.3	779.6	780.9	782.1
20°	761.9	760.6	768.2	768.2	770.7
22.5°	746.7	745.4	755.5	755.5	758.1
25°	730.2	729.0	740.4	742.9	744.2
27.5°	712.5	711.3	722.6	726.4	729.0
30°	692.3	692.3	704.9	710.0	713.8
32.5°	669.5	673.3	684.7	692.3	697.3
35°	648.0	653.0	665.7	674.5	680.9
37.5°	623.9	629.0	642.9	654.3	661.9
40°	598.6	604.9	621.4	634.1	645.4
42.5°	573.3	579.6	597.4	616.3	631.5
45°	544.2	553.1	572.0	598.6	616.3
47.5°	515.1	523.9	548.0	580.9	598.6
50°	484.7	494.8	523.9	561.9	580.9
52.5°	453.1	464.5	501.2	541.7	560.6
55°	420.2	434.1	475.9	518.9	539.1
57.5°	386.0	401.2	450.5	496.1	517.6
60°	350.6	369.5	424.0	472.1	494.8
62.5°	313.9	336.6	397.4	446.7	470.8
65°	275.9	302.5	369.5	421.4	445.5
67.5°	236.7	272.1	341.7	396.1	420.2
70°	197.4	239.2	312.6	368.3	392.3
72.5°	160.7	208.8	283.5	335.4	340.4
75°	125.3	178.4	253.1	258.2	249.3
77.5°	93.7	148.1	208.8	186.0	184.8
80°	67.1	119.0	134.2	137.9	139.2
82.5°	44.3	89.9	87.3	89.9	88.6
85°	26.6	44.3	45.6	44.3	41.8
87.5°	12.7	16.5	12.7	11.4	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)