

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: P263236

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263236
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-LD5-35-SQP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2398.0 lumens
Efficiency: N/A
Efficacy: 96.9 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

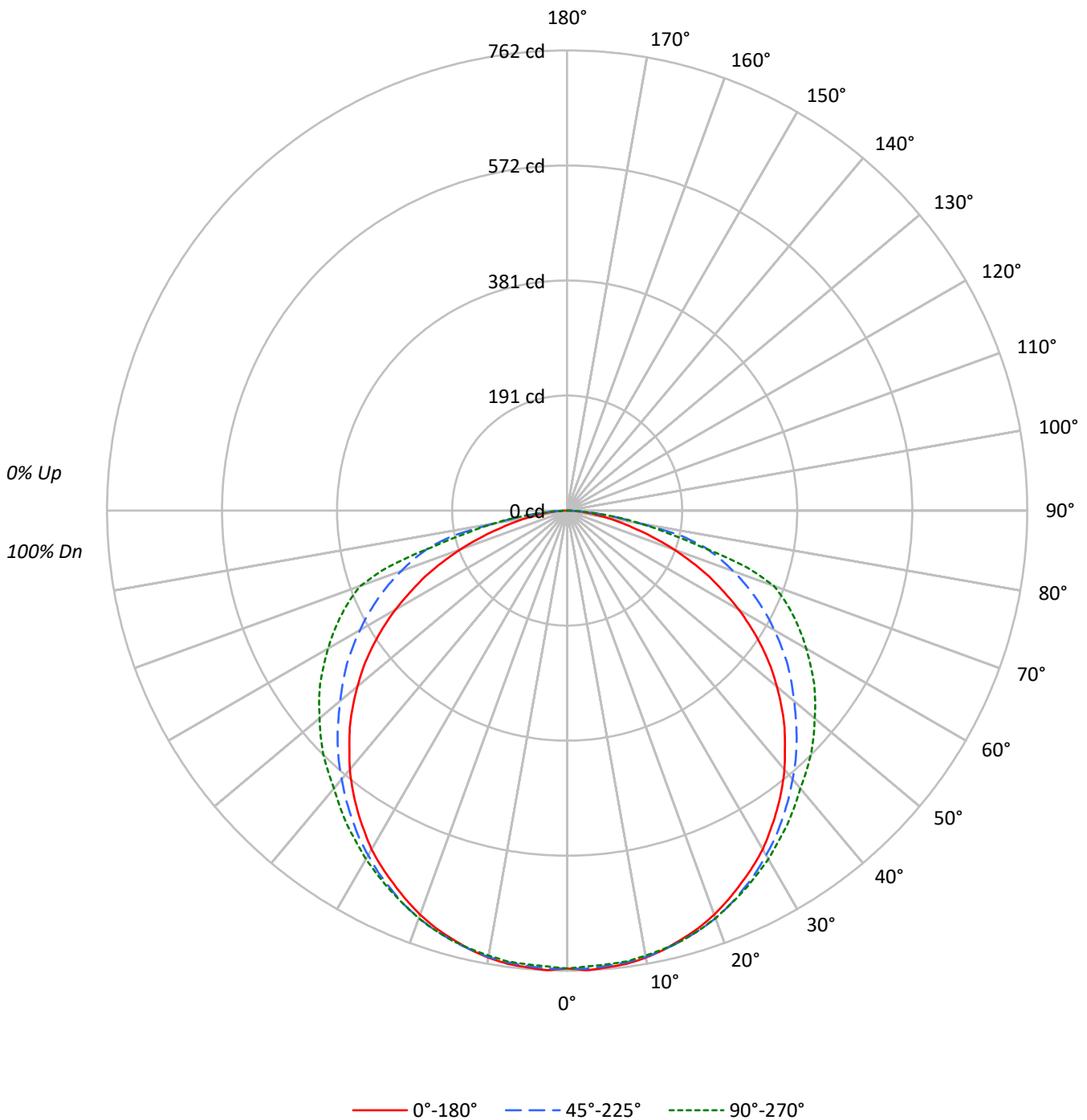
Input Watts (W): 24.738
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	1020	1020	1020
5°	1026	1022	1019
10°	1027	1026	1022
15°	1023	1027	1027
20°	1020	1029	1029
25°	1011	1026	1030
30°	1006	1024	1035
35°	995	1021	1044
40°	983	1020	1055
45°	969	1023	1087
50°	949	1027	1120
55°	924	1046	1171
60°	883	1067	1230
65°	828	1100	1317
70°	741	1150	1433
75°	612	1230	1185
80°	499	950	960
85°	401	631	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	3.0
10°-20°	207.7	8.7
20°-30°	317.5	13.2
30°-40°	388.3	16.2
40°-50°	415.5	17.3
50°-60°	397.9	16.6
60°-70°	336.6	14.0
70°-80°	213.4	8.9
80°-90°	49.1	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°	597.3	24.9
0°-40°	985.6	41.1
0°-60°	1799.0	75.0
0°-90°	2398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	759	756	757	756	754	72
15°	734	733	737	737	737	207
25°	681	681	691	694	694	314
35°	606	609	622	630	635	379
45°	509	518	538	560	571	392
55°	394	406	446	483	499	351
65°	260	285	346	393	414	256
75°	118	166	237	235	228	128
85°	26	40	41	37	38	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	758.1	758.1	758.1	758.1	758.1
2.5°	761.8	758.1	759.3	758.1	755.6
5°	759.3	755.6	756.8	755.6	754.3
7.5°	756.8	753.1	754.3	753.1	753.1
10°	751.9	748.1	750.6	749.4	748.1
12.5°	744.4	742.0	744.4	743.2	743.2
15°	734.5	733.3	737.0	737.0	737.0
17.5°	724.6	723.4	728.3	728.3	728.3
20°	712.2	711.0	718.4	718.4	718.4
22.5°	697.4	696.1	706.0	706.0	706.0
25°	681.3	681.3	691.2	693.6	693.6
27.5°	665.2	665.2	676.3	680.0	680.0
30°	647.8	647.8	659.0	663.9	666.4
32.5°	626.8	629.2	641.6	647.8	650.3
35°	605.7	609.4	621.8	630.5	635.4
37.5°	583.4	587.1	602.0	611.9	618.1
40°	559.9	564.8	580.9	593.3	600.7
42.5°	533.9	541.3	559.9	576.0	585.9
45°	509.1	517.8	537.6	559.9	571.0
47.5°	481.8	491.7	514.0	542.5	553.7
50°	453.3	463.3	490.5	522.7	535.1
52.5°	424.9	436.0	468.2	502.9	517.8
55°	393.9	406.3	445.9	483.1	499.2
57.5°	361.7	376.5	421.1	460.8	478.1
60°	328.2	346.8	396.4	438.5	457.1
62.5°	293.6	315.9	371.6	416.2	436.0
65°	260.1	284.9	345.6	392.7	413.7
67.5°	224.2	255.2	319.6	370.4	390.2
70°	188.3	224.2	292.3	344.3	364.2
72.5°	152.4	195.7	265.1	312.1	312.1
75°	117.7	166.0	236.6	235.3	227.9
77.5°	89.2	138.7	194.5	166.0	167.2
80°	64.4	111.5	122.6	122.6	123.9
82.5°	43.4	85.5	79.3	78.0	80.5
85°	26.0	39.6	40.9	37.2	38.4
87.5°	12.4	13.6	11.1	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)