

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: P263137

Luminaire Tested: **24CZ-LD5-45SE-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263137
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-LD5-45SE-SQP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2835.0 lumens
Efficiency: N/A
Efficacy: 81.2 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

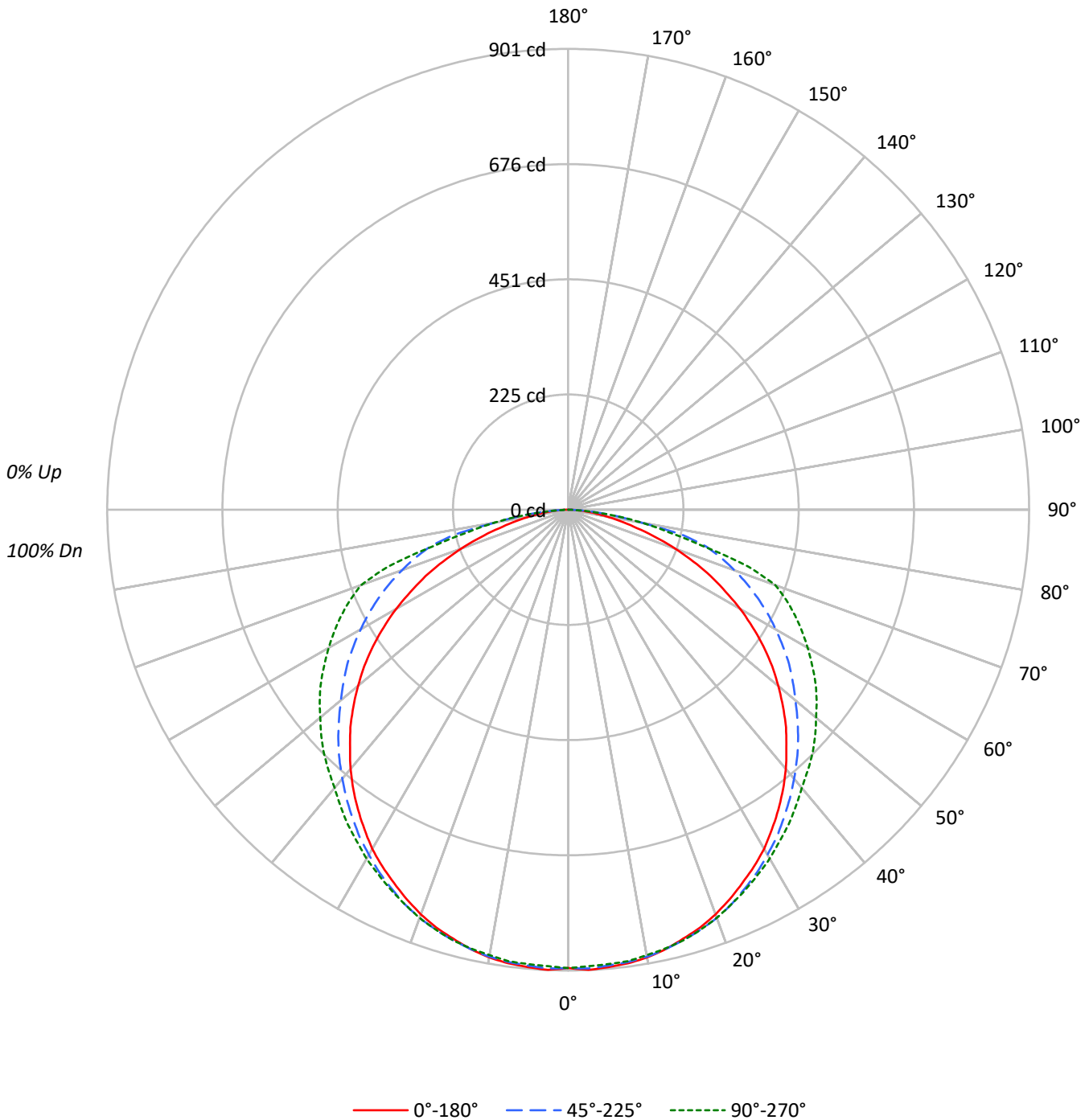
Input Watts (W): 34.898064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1206	1206	1206
5°	1212	1208	1204
10°	1214	1212	1208
15°	1210	1214	1214
20°	1206	1216	1216
25°	1196	1213	1217
30°	1190	1210	1224
35°	1176	1207	1234
40°	1163	1206	1247
45°	1145	1209	1285
50°	1122	1214	1324
55°	1092	1237	1384
60°	1044	1261	1454
65°	979	1301	1557
70°	876	1360	1694
75°	723	1454	1400
80°	590	1124	1134
85°	475	746	701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	3.0
10°-20°	245.6	8.7
20°-30°	375.4	13.2
30°-40°	459.1	16.2
40°-50°	491.2	17.3
50°-60°	470.4	16.6
60°-70°	397.9	14.0
70°-80°	252.2	8.9
80°-90°	58.0	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°	706.1	24.9
0°-40°	1165.2	41.1
0°-60°	2126.8	75.0
0°-90°	2835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	898	893	895	893	892	85
15°	868	867	871	871	871	245
25°	805	805	817	820	820	372
35°	716	720	735	745	751	448
45°	602	612	636	662	675	464
55°	466	480	527	571	590	415
65°	308	337	409	464	489	303
75°	139	196	280	278	269	151
85°	31	47	48	44	45	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	896.2	896.2	896.2	896.2	896.2
2.5°	900.6	896.2	897.7	896.2	893.3
5°	897.7	893.3	894.7	893.3	891.8
7.5°	894.7	890.3	891.8	890.3	890.3
10°	888.9	884.5	887.4	885.9	884.5
12.5°	880.1	877.2	880.1	878.6	878.6
15°	868.4	866.9	871.3	871.3	871.3
17.5°	856.7	855.2	861.1	861.1	861.1
20°	842.0	840.6	849.3	849.3	849.3
22.5°	824.4	823.0	834.7	834.7	834.7
25°	805.4	805.4	817.1	820.0	820.0
27.5°	786.4	786.4	799.5	803.9	803.9
30°	765.9	765.9	779.0	784.9	787.8
32.5°	741.0	743.9	758.5	765.9	768.8
35°	716.1	720.5	735.1	745.4	751.2
37.5°	689.7	694.1	711.7	723.4	730.7
40°	661.9	667.8	686.8	701.4	710.2
42.5°	631.1	639.9	661.9	680.9	692.6
45°	601.9	612.1	635.5	661.9	675.1
47.5°	569.6	581.4	607.7	641.4	654.6
50°	536.0	547.7	579.9	618.0	632.6
52.5°	502.3	515.5	553.5	594.5	612.1
55°	465.7	480.3	527.2	571.1	590.1
57.5°	427.6	445.2	497.9	544.7	565.2
60°	388.1	410.0	468.6	518.4	540.4
62.5°	347.1	373.4	439.3	492.0	515.5
65°	307.5	336.8	408.6	464.2	489.1
67.5°	265.1	301.7	377.8	437.8	461.3
70°	222.6	265.1	345.6	407.1	430.5
72.5°	180.1	231.4	313.4	369.0	369.0
75°	139.1	196.2	279.7	278.2	269.4
77.5°	105.4	164.0	229.9	196.2	197.7
80°	76.1	131.8	145.0	145.0	146.4
82.5°	51.3	101.0	93.7	92.3	95.2
85°	30.8	46.9	48.3	43.9	45.4
87.5°	14.6	16.1	13.2	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)