

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: P263485

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263485
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-LD5-50SE-SQP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2833.0 lumens
Efficiency: N/A
Efficacy: 71.2 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

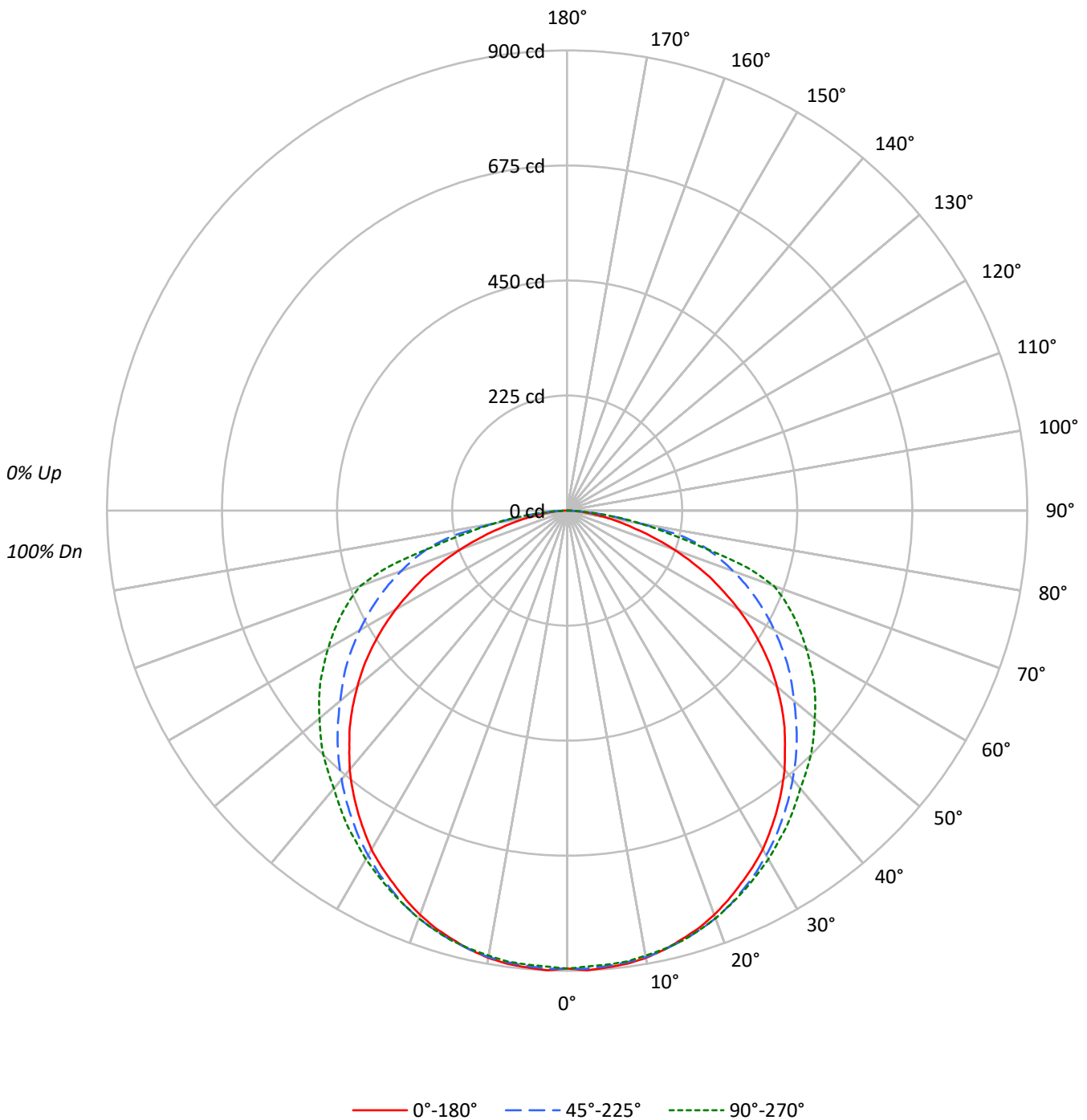
Input Watts (W): 39.804
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1205	1205	1205
5°	1212	1208	1204
10°	1213	1212	1208
15°	1209	1213	1213
20°	1205	1215	1215
25°	1195	1212	1217
30°	1189	1210	1223
35°	1175	1207	1233
40°	1162	1205	1247
45°	1144	1208	1284
50°	1121	1213	1323
55°	1091	1236	1383
60°	1044	1260	1453
65°	978	1300	1556
70°	875	1358	1692
75°	723	1453	1400
80°	590	1123	1134
85°	474	746	701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	3.0
10°-20°	245.4	8.7
20°-30°	375.1	13.2
30°-40°	458.8	16.2
40°-50°	490.9	17.3
50°-60°	470.1	16.6
60°-70°	397.6	14.0
70°-80°	252.1	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°	705.6	24.9
0°-40°	1164.4	41.1
0°-60°	2125.3	75.0
0°-90°	2833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	897	893	894	893	891	85
15°	868	866	871	871	871	245
25°	805	805	816	820	820	371
35°	716	720	735	745	751	448
45°	601	612	635	661	675	463
55°	465	480	527	571	590	415
65°	307	337	408	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°	895.6	895.6	895.6	895.6	895.6
2.5°	900.0	895.6	897.0	895.6	892.6
5°	897.0	892.6	894.1	892.6	891.2
7.5°	894.1	889.7	891.2	889.7	889.7
10°	888.2	883.9	886.8	885.3	883.9
12.5°	879.5	876.5	879.5	878.0	878.0
15°	867.8	866.3	870.7	870.7	870.7
17.5°	856.1	854.6	860.4	860.4	860.4
20°	841.4	840.0	848.7	848.7	848.7
22.5°	823.9	822.4	834.1	834.1	834.1
25°	804.8	804.8	816.5	819.5	819.5
27.5°	785.8	785.8	799.0	803.4	803.4
30°	765.3	765.3	778.5	784.4	787.3
32.5°	740.5	743.4	758.0	765.3	768.3
35°	715.6	720.0	734.6	744.8	750.7
37.5°	689.2	693.6	711.2	722.9	730.2
40°	661.4	667.3	686.3	700.9	709.7
42.5°	630.7	639.5	661.4	680.5	692.2
45°	601.4	611.7	635.1	661.4	674.6
47.5°	569.2	580.9	607.3	640.9	654.1
50°	535.6	547.3	579.5	617.5	632.2
52.5°	501.9	515.1	553.1	594.1	611.7
55°	465.3	480.0	526.8	570.7	589.7
57.5°	427.3	444.9	497.5	544.4	564.8
60°	387.8	409.7	468.3	518.0	540.0
62.5°	346.8	373.2	439.0	491.7	515.1
65°	307.3	336.6	408.3	463.9	488.8
67.5°	264.9	301.4	377.5	437.5	461.0
70°	222.4	264.9	345.3	406.8	430.2
72.5°	180.0	231.2	313.2	368.8	368.8
75°	139.0	196.1	279.5	278.0	269.3
77.5°	105.4	163.9	229.7	196.1	197.6
80°	76.1	131.7	144.9	144.9	146.3
82.5°	51.2	101.0	93.7	92.2	95.1
85°	30.7	46.8	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)