

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: P260359

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-SQP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x2 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: 1840.0 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

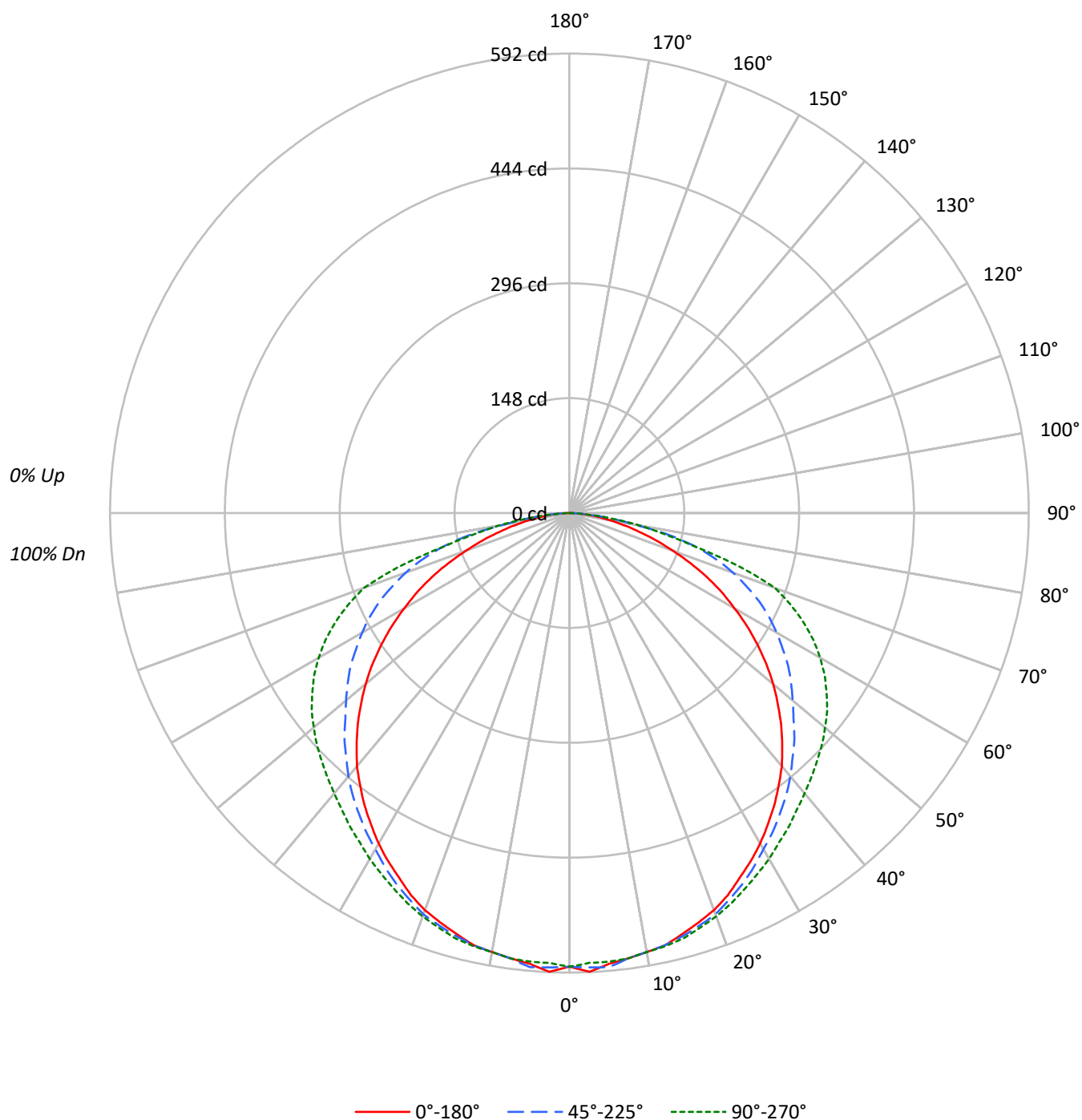
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83								
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68								
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	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	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41								
6	68	55	45	39	66	54	45	39	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°	1573	1573	1573
5°	1575	1586	1567
10°	1570	1570	1570
15°	1565	1572	1580
20°	1559	1575	1584
25°	1540	1566	1587
30°	1528	1554	1598
35°	1511	1554	1620
40°	1496	1556	1656
45°	1468	1561	1718
50°	1436	1573	1801
55°	1388	1616	1897
60°	1323	1661	2007
65°	1247	1720	2120
70°	1113	1765	2215
75°	966	1768	1753
80°	820	1306	1418
85°	707	883	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	3.0
10°-20°	159.4	8.7
20°-30°	242.8	13.2
30°-40°	297.1	16.1
40°-50°	319.7	17.4
50°-60°	309.7	16.8
60°-70°	262.3	14.3
70°-80°	158.6	8.6
80°-90°	34.8	1.9
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°	457.7	24.9
0°-40°	754.8	41.0
0°-60°	1384.2	75.2
0°-90°	1840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	583	583	587	584	580	55
15°	562	563	564	566	567	159
25°	519	522	527	532	534	239
35°	460	463	473	486	493	288
45°	386	393	410	436	452	297
55°	296	309	344	384	404	264
65°	196	217	270	313	333	193
75°	93	126	170	173	169	100
85°	23	27	29	27	26	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	584.4	584.4	584.4	584.4	584.4
2.5°	591.6	590.1	585.9	583.0	580.1
5°	583.0	583.0	587.3	584.4	580.1
7.5°	578.7	578.7	578.7	585.9	578.7
10°	574.4	575.9	574.4	580.1	574.4
12.5°	570.1	570.1	570.1	571.6	571.6
15°	561.6	563.0	564.4	565.9	567.3
17.5°	553.0	554.4	557.3	558.7	560.1
20°	544.4	545.9	550.1	550.1	553.0
22.5°	533.0	533.0	538.7	540.1	544.4
25°	518.7	521.6	527.3	531.6	534.4
27.5°	505.8	508.7	514.4	520.1	524.4
30°	491.6	494.4	500.1	508.7	514.4
32.5°	475.8	478.7	487.3	497.3	503.0
35°	460.1	463.0	473.0	485.8	493.0
37.5°	443.0	447.3	458.7	473.0	481.6
40°	425.8	430.1	443.0	458.7	471.5
42.5°	405.8	411.5	425.8	447.3	461.5
45°	385.8	393.0	410.1	435.8	451.5
47.5°	364.4	371.5	391.5	424.4	441.5
50°	342.9	351.5	375.8	411.5	430.1
52.5°	320.1	328.7	360.1	398.7	418.7
55°	295.8	308.6	344.4	384.4	404.4
57.5°	271.5	285.8	325.8	368.7	390.1
60°	245.8	262.9	308.6	351.5	373.0
62.5°	221.5	240.1	290.1	332.9	354.4
65°	195.8	217.2	270.1	312.9	332.9
67.5°	168.6	195.8	247.2	288.6	308.6
70°	141.5	172.9	224.3	262.9	281.5
72.5°	117.2	150.0	198.6	231.5	231.5
75°	92.9	125.7	170.0	172.9	168.6
77.5°	71.4	102.9	132.9	121.5	124.3
80°	52.9	78.6	84.3	88.6	91.5
82.5°	35.7	52.9	54.3	57.2	57.2
85°	22.9	27.1	28.6	27.1	25.7
87.5°	10.0	11.4	8.6	5.7	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)