

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: P260264

Luminaire Tested: **22CZ-LD5-34-SQP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260264
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-L93050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2009.0 lumens
Efficiency: N/A
Efficacy: 75.1 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

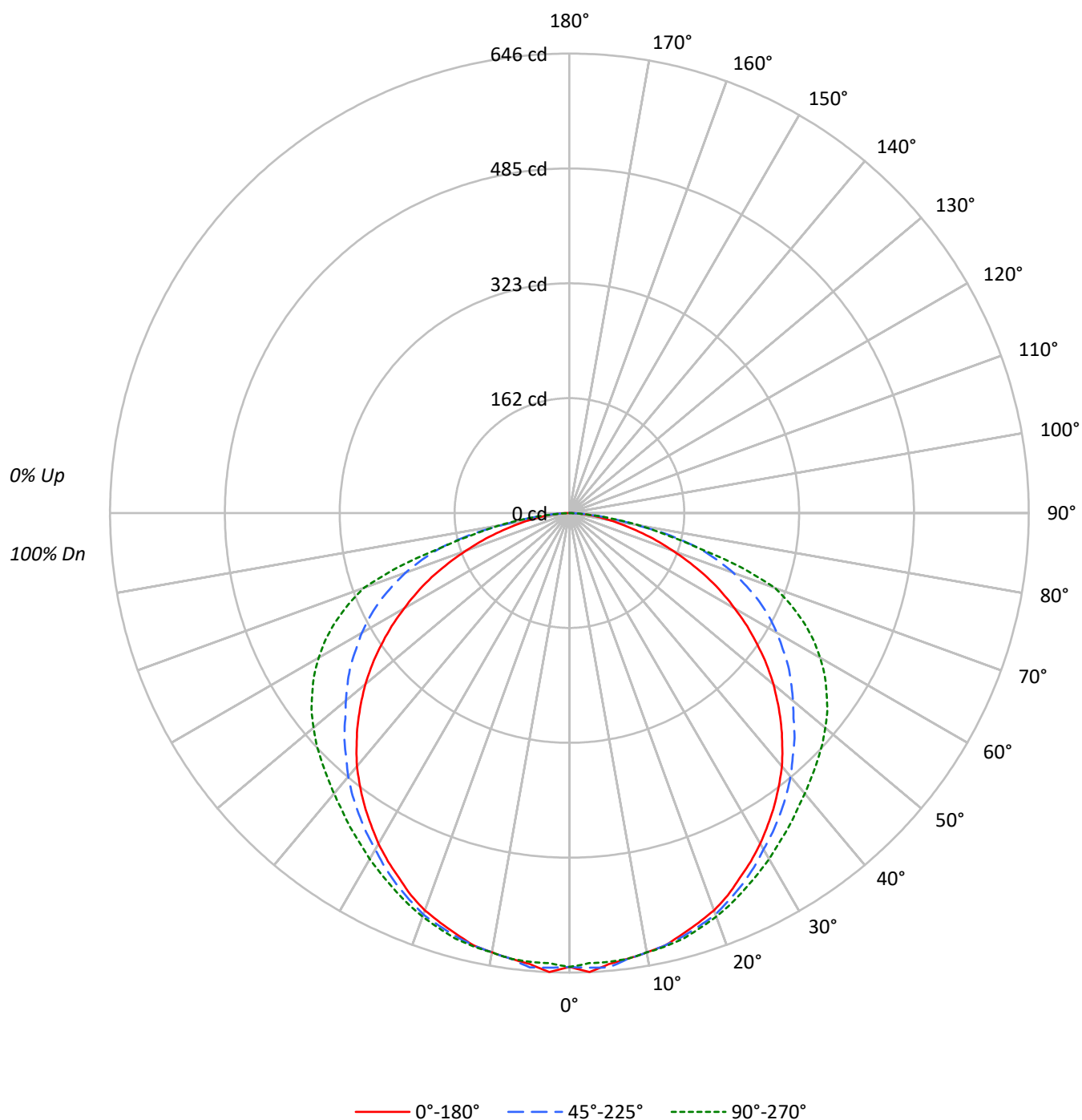
Input Watts (W): 26.746056
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1717	1717	1717
5°	1720	1732	1711
10°	1714	1714	1714
15°	1708	1717	1726
20°	1702	1720	1729
25°	1681	1709	1733
30°	1668	1697	1745
35°	1650	1696	1768
40°	1633	1699	1809
45°	1603	1704	1876
50°	1567	1718	1966
55°	1515	1764	2071
60°	1445	1814	2192
65°	1361	1878	2315
70°	1216	1927	2419
75°	1054	1931	1914
80°	894	1427	1548
85°	772	963	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	3.0
10°-20°	174.0	8.7
20°-30°	265.2	13.2
30°-40°	324.4	16.1
40°-50°	349.1	17.4
50°-60°	338.1	16.8
60°-70°	286.4	14.3
70°-80°	173.1	8.6
80°-90°	38.0	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°	499.7	24.9
0°-40°	824.2	41.0
0°-60°	1511.4	75.2
0°-90°	2009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	637	637	641	638	633	61
15°	613	615	616	618	619	173
25°	566	570	576	580	584	261
35°	502	506	516	530	538	314
45°	421	429	448	476	493	325
55°	323	337	376	420	442	288
65°	214	237	295	342	364	210
75°	101	137	186	189	184	109
85°	25	30	31	30	28	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.1	638.1	638.1	638.1	638.1
2.5°	645.9	644.4	639.7	636.6	633.4
5°	636.6	636.6	641.2	638.1	633.4
7.5°	631.9	631.9	631.9	639.7	631.9
10°	627.2	628.8	627.2	633.4	627.2
12.5°	622.5	622.5	622.5	624.1	624.1
15°	613.1	614.7	616.3	617.8	619.4
17.5°	603.8	605.3	608.5	610.0	611.6
20°	594.4	596.0	600.7	600.7	603.8
22.5°	581.9	581.9	588.2	589.7	594.4
25°	566.3	569.5	575.7	580.4	583.5
27.5°	552.3	555.4	561.7	567.9	572.6
30°	536.7	539.8	546.1	555.4	561.7
32.5°	519.5	522.7	532.0	542.9	549.2
35°	502.4	505.5	516.4	530.5	538.3
37.5°	483.7	488.3	500.8	516.4	525.8
40°	464.9	469.6	483.7	500.8	514.9
42.5°	443.1	449.3	464.9	488.3	503.9
45°	421.2	429.0	447.8	475.9	493.0
47.5°	397.8	405.6	427.5	463.4	482.1
50°	374.4	383.8	410.3	449.3	469.6
52.5°	349.5	358.8	393.2	435.3	457.1
55°	323.0	337.0	376.0	419.7	441.5
57.5°	296.4	312.0	355.7	402.5	425.9
60°	268.4	287.1	337.0	383.8	407.2
62.5°	241.8	262.1	316.7	363.5	386.9
65°	213.7	237.1	294.9	341.7	363.5
67.5°	184.1	213.7	269.9	315.2	337.0
70°	154.5	188.8	244.9	287.1	307.4
72.5°	127.9	163.8	216.9	252.7	252.7
75°	101.4	137.3	185.7	188.8	184.1
77.5°	78.0	112.3	145.1	132.6	135.7
80°	57.7	85.8	92.1	96.7	99.9
82.5°	39.0	57.7	59.3	62.4	62.4
85°	25.0	29.6	31.2	29.6	28.1
87.5°	10.9	12.5	9.4	6.2	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)