

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: P260432

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-RDP-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2365.0 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

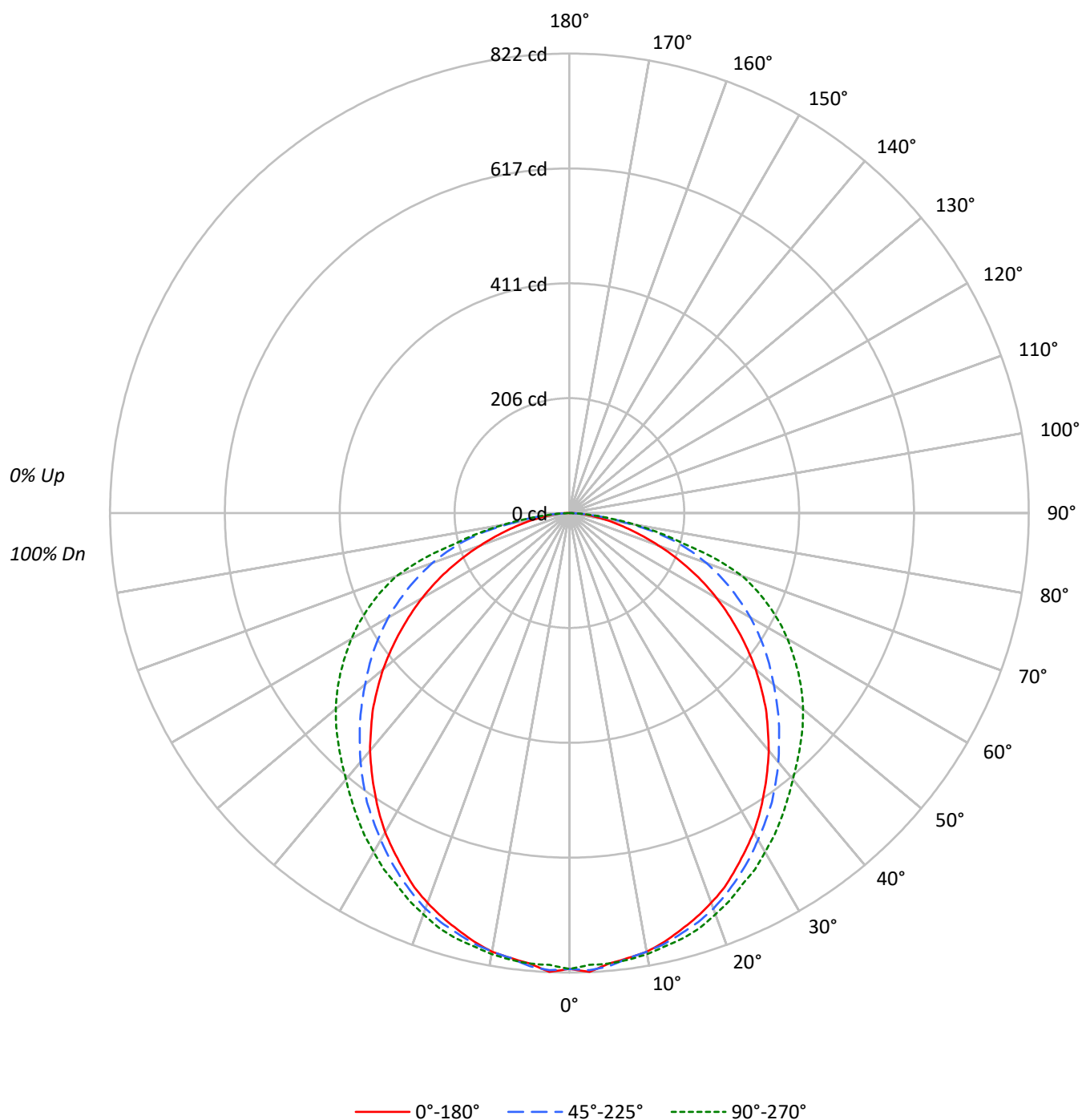
Input Watts (W): 26.746056
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	81	76		84	79	74		81	77	73		78	74	71
3	89	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	69	60	54	79	68	60	53		66	58	52		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	37	31		43	36	31		42	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	26		37	30	25		36	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2194	2194	2194
5°	2186	2198	2186
10°	2177	2177	2190
15°	2150	2167	2193
20°	2125	2156	2188
25°	2088	2129	2176
30°	2049	2098	2175
35°	1997	2074	2177
40°	1950	2043	2185
45°	1893	2017	2225
50°	1821	1997	2285
55°	1734	2004	2348
60°	1636	2014	2425
65°	1509	2025	2511
70°	1337	2049	2589
75°	1134	2042	2204
80°	942	1643	1836
85°	818	1108	1059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	3.3
10°-20°	219.7	9.3
20°-30°	330.6	14.0
30°-40°	396.2	16.8
40°-50°	413.1	17.5
50°-60°	384.6	16.3
60°-70°	312.3	13.2
70°-80°	188.2	8.0
80°-90°	43.2	1.8
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°	627.4	26.5
0°-40°	1023.5	43.3
0°-60°	1821.3	77.0
0°-90°	2365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	809	809	814	815	809	77
15°	772	775	778	783	787	218
25°	703	708	717	726	733	324
35°	608	616	631	650	663	381
45°	497	507	530	564	585	383
55°	370	385	427	474	500	330
65°	237	262	318	368	394	234
75°	109	145	196	209	212	118
85°	26	33	36	34	34	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	815.4	815.4	815.4	815.4	815.4
2.5°	821.6	820.0	818.5	813.8	809.1
5°	809.1	809.1	813.8	815.4	809.1
7.5°	802.9	802.9	802.9	809.1	806.0
10°	796.7	796.7	796.7	801.3	801.3
12.5°	785.7	787.3	788.9	790.4	793.5
15°	771.7	774.8	777.9	782.6	787.3
17.5°	757.7	760.8	767.0	771.7	777.9
20°	742.1	745.2	753.0	757.7	763.9
22.5°	724.9	726.5	735.9	742.1	749.9
25°	703.1	707.8	717.1	726.5	732.7
27.5°	681.3	686.0	696.9	709.4	718.7
30°	659.5	664.1	675.1	690.6	700.0
32.5°	634.5	640.8	653.2	671.9	682.8
35°	608.0	615.8	631.4	650.1	662.6
37.5°	581.5	589.3	606.5	629.8	642.3
40°	555.0	562.8	581.5	606.5	622.0
42.5°	525.4	534.7	555.0	584.6	603.3
45°	497.3	506.7	530.1	564.4	584.6
47.5°	466.1	477.1	503.6	542.5	565.9
50°	435.0	447.4	477.1	520.7	545.7
52.5°	402.2	416.3	452.1	497.3	523.8
55°	369.5	385.1	427.2	473.9	500.4
57.5°	336.7	353.9	400.7	449.0	475.5
60°	304.0	322.7	374.2	424.1	450.6
62.5°	271.3	291.5	346.1	396.0	424.1
65°	237.0	261.9	318.0	367.9	394.4
67.5°	202.7	232.3	290.0	338.3	363.2
70°	169.9	202.7	260.4	305.6	329.0
72.5°	138.8	173.1	229.2	268.2	277.5
75°	109.1	145.0	196.4	208.9	212.0
77.5°	84.2	116.9	155.9	159.0	166.8
80°	60.8	88.9	106.0	115.4	118.5
82.5°	42.1	60.8	70.2	71.7	73.3
85°	26.5	32.7	35.9	34.3	34.3
87.5°	14.0	12.5	10.9	7.8	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)