

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: P276738

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2239.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

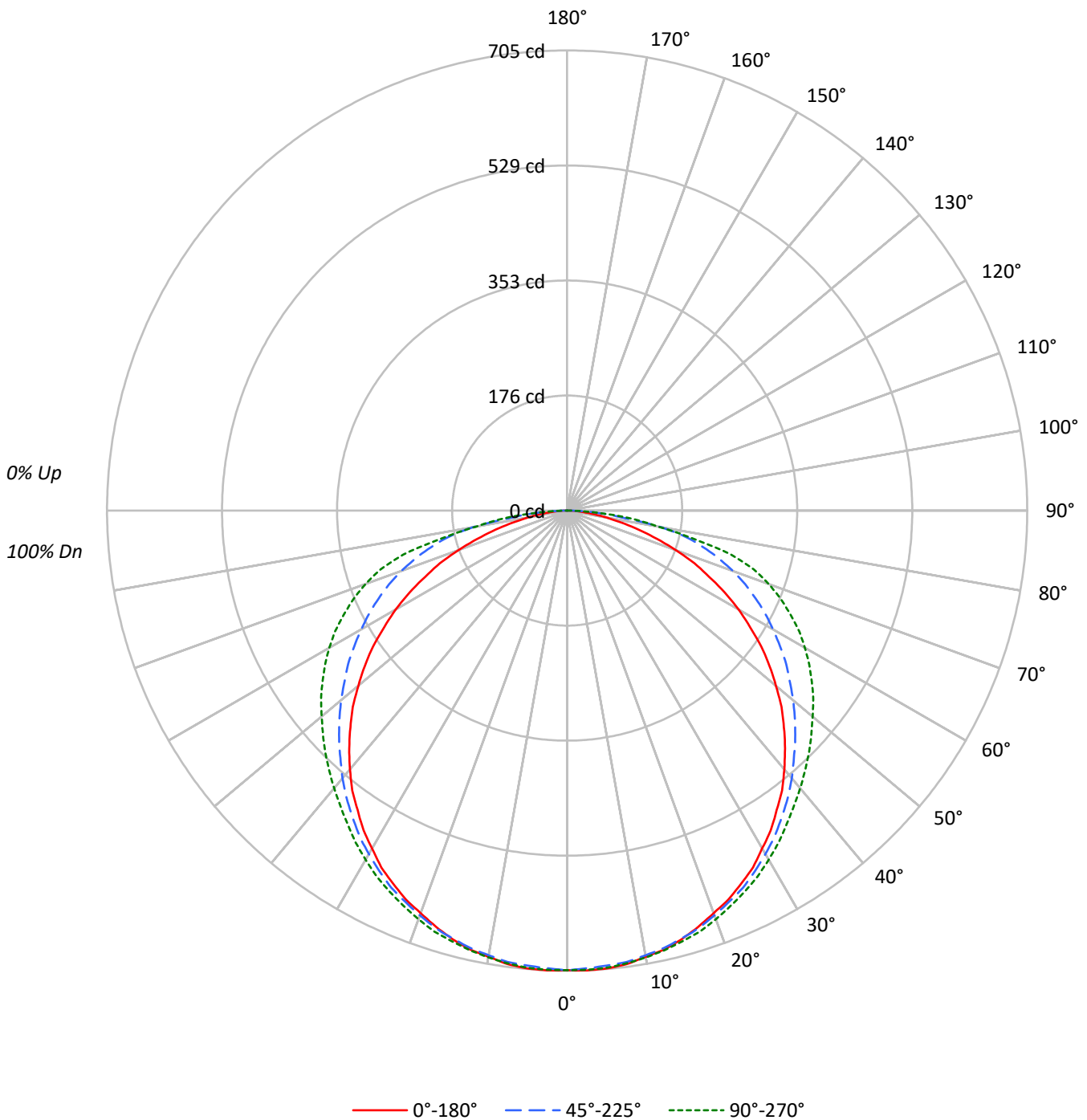
Input Watts (W): 24.18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	947	947	947
5°	951	945	949
10°	948	945	950
15°	947	945	951
20°	940	945	954
25°	936	946	956
30°	928	944	959
35°	919	941	963
40°	909	940	975
45°	894	940	997
50°	874	946	1028
55°	852	961	1073
60°	816	980	1133
65°	764	1015	1202
70°	695	1062	1293
75°	589	1120	1351
80°	465	1127	1093
85°	343	857	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	3.0
10°-20°	192.2	8.6
20°-30°	293.9	13.1
30°-40°	359.4	16.0
40°-50°	383.0	17.1
50°-60°	366.2	16.4
60°-70°	310.2	13.9
70°-80°	208.5	9.3
80°-90°	58.8	2.6
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°	553.0	24.7
0°-40°	912.3	40.7
0°-60°	1661.5	74.2
0°-90°	2239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	704	703	700	703	703	67
15°	680	680	679	684	683	192
25°	631	633	638	643	644	291
35°	560	564	573	584	586	351
45°	470	478	494	515	524	362
55°	363	376	410	442	458	323
65°	240	264	319	361	378	238
75°	113	154	216	252	260	121
85°	22	46	56	60	62	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.1	704.1	704.1	704.1	704.1
2.5°	705.2	705.2	701.9	704.1	704.1
5°	704.1	703.0	699.7	703.0	703.0
7.5°	700.8	699.7	697.4	700.8	699.7
10°	694.1	694.1	691.9	695.2	695.2
12.5°	688.6	687.4	686.3	690.8	689.7
15°	679.7	679.7	678.6	684.1	683.0
17.5°	668.6	669.7	670.8	675.2	676.3
20°	656.3	658.6	659.7	666.3	666.3
22.5°	645.2	646.4	648.6	655.2	655.2
25°	630.8	633.0	637.5	643.0	644.1
27.5°	616.4	617.5	623.0	630.8	631.9
30°	597.5	600.8	607.5	616.4	617.5
32.5°	580.8	584.2	591.9	600.8	603.0
35°	559.7	564.2	573.1	584.2	586.4
37.5°	540.8	544.2	555.3	567.5	570.8
40°	517.5	524.2	535.3	549.7	555.3
42.5°	494.2	500.9	514.2	533.1	539.7
45°	469.8	477.5	494.2	515.3	524.2
47.5°	445.3	454.2	473.1	497.5	507.5
50°	417.6	428.7	452.0	479.8	490.9
52.5°	390.9	404.2	429.8	460.9	475.3
55°	363.2	376.5	409.8	442.0	457.6
57.5°	332.1	349.8	386.5	423.1	439.8
60°	303.2	319.8	364.3	404.2	420.9
62.5°	272.1	294.3	342.1	384.3	400.9
65°	239.9	264.3	318.7	360.9	377.6
67.5°	211.0	237.7	295.4	337.6	354.3
70°	176.6	209.9	269.9	312.1	328.7
72.5°	144.4	181.0	243.2	284.3	299.9
75°	113.3	154.4	215.5	252.1	259.9
77.5°	84.4	127.7	186.6	202.1	196.6
80°	60.0	102.2	145.5	137.7	141.0
82.5°	38.9	77.7	90.0	102.2	105.5
85°	22.2	45.5	55.5	60.0	62.2
87.5°	10.0	16.7	22.2	22.2	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)