

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: P276737

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276737
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-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2116.0 lumens
Efficiency: N/A
Efficacy: 87.7 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

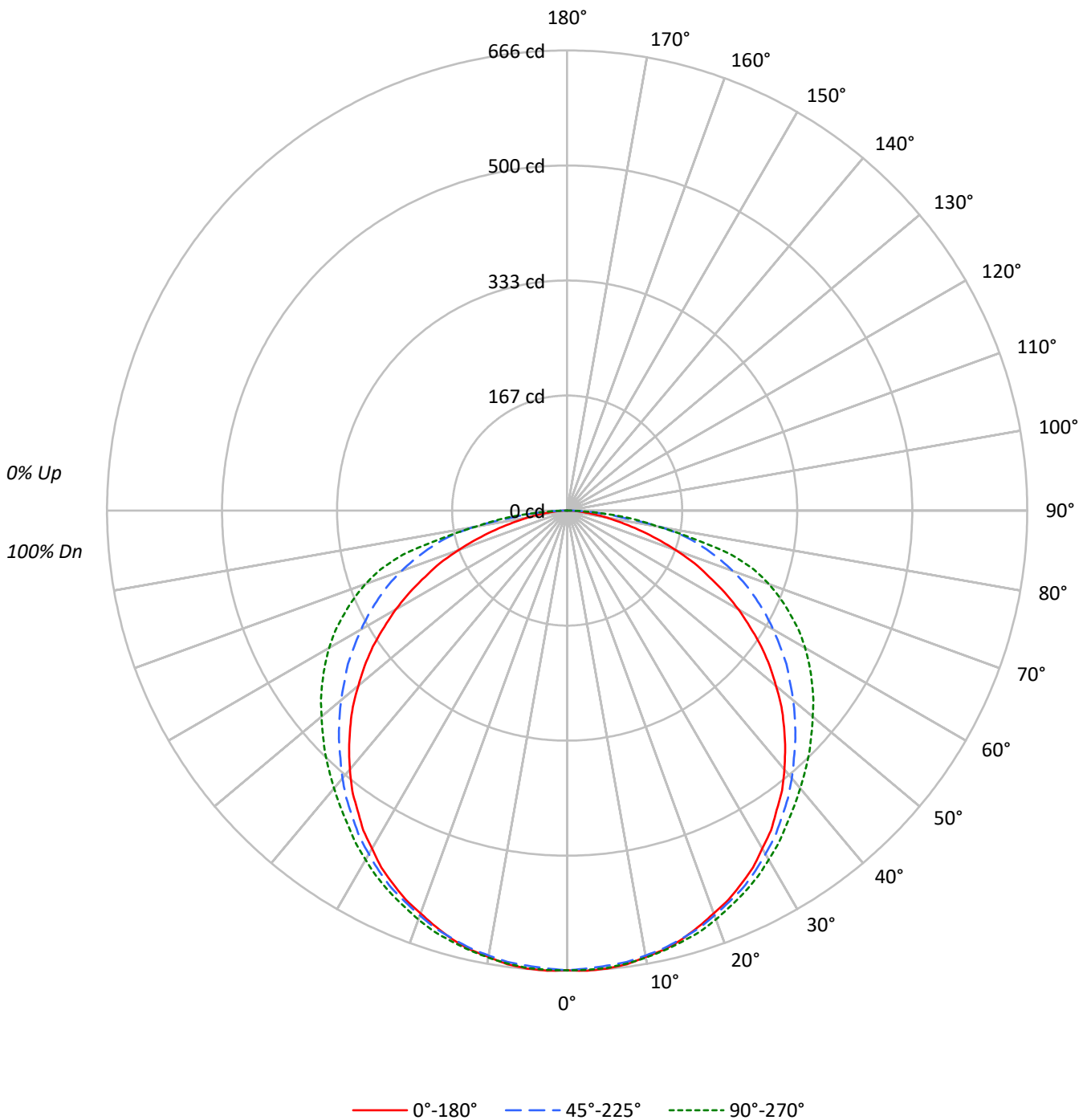
Input Watts (W): 24.13164
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	895	895	895
5°	899	893	897
10°	896	893	898
15°	895	893	899
20°	888	893	902
25°	885	894	904
30°	877	892	907
35°	869	890	910
40°	859	889	922
45°	845	889	943
50°	826	894	971
55°	805	909	1014
60°	771	927	1070
65°	722	959	1136
70°	657	1003	1222
75°	557	1058	1277
80°	439	1065	1033
85°	324	810	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	3.0
10°-20°	181.7	8.6
20°-30°	277.8	13.1
30°-40°	339.6	16.0
40°-50°	362.0	17.1
50°-60°	346.1	16.4
60°-70°	293.2	13.9
70°-80°	197.0	9.3
80°-90°	55.6	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°	522.6	24.7
0°-40°	862.2	40.7
0°-60°	1570.2	74.2
0°-90°	2116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	665	664	661	664	664	63
15°	642	642	641	646	646	181
25°	596	598	602	608	609	275
35°	529	533	542	552	554	331
45°	444	451	467	487	495	342
55°	343	356	387	418	432	306
65°	227	250	301	341	357	225
75°	107	146	204	238	246	115
85°	21	43	52	57	59	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	665.4	665.4	665.4	665.4	665.4
2.5°	666.5	666.5	663.3	665.4	665.4
5°	665.4	664.4	661.2	664.4	664.4
7.5°	662.3	661.2	659.1	662.3	661.2
10°	656.0	656.0	653.9	657.0	657.0
12.5°	650.7	649.7	648.6	652.8	651.8
15°	642.3	642.3	641.3	646.5	645.5
17.5°	631.8	632.9	633.9	638.1	639.2
20°	620.3	622.4	623.4	629.7	629.7
22.5°	609.8	610.8	612.9	619.2	619.2
25°	596.2	598.2	602.4	607.7	608.7
27.5°	582.5	583.6	588.8	596.2	597.2
30°	564.7	567.8	574.1	582.5	583.6
32.5°	548.9	552.1	559.4	567.8	569.9
35°	529.0	533.2	541.6	552.1	554.2
37.5°	511.1	514.3	524.8	536.3	539.5
40°	489.1	495.4	505.9	519.5	524.8
42.5°	467.1	473.4	485.9	503.8	510.1
45°	444.0	451.3	467.1	487.0	495.4
47.5°	420.9	429.3	447.1	470.2	479.6
50°	394.6	405.1	427.2	453.4	463.9
52.5°	369.4	382.0	406.2	435.6	449.2
55°	343.2	355.8	387.3	417.7	432.4
57.5°	313.8	330.6	365.2	399.9	415.6
60°	286.5	302.3	344.3	382.0	397.8
62.5°	257.1	278.1	323.3	363.1	378.9
65°	226.7	249.8	301.2	341.1	356.9
67.5°	199.4	224.6	279.2	319.1	334.8
70°	166.9	198.4	255.0	294.9	310.7
72.5°	136.4	171.1	229.9	268.7	283.4
75°	107.1	145.9	203.6	238.3	245.6
77.5°	79.8	120.7	176.3	191.0	185.8
80°	56.7	96.6	137.5	130.1	133.3
82.5°	36.7	73.5	85.0	96.6	99.7
85°	21.0	43.0	52.5	56.7	58.8
87.5°	9.4	15.7	21.0	21.0	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)