

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: P277023

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277023
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: 24CZ2-30HE-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1833.6 lumens
Efficiency: N/A
Efficacy: 90.9 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

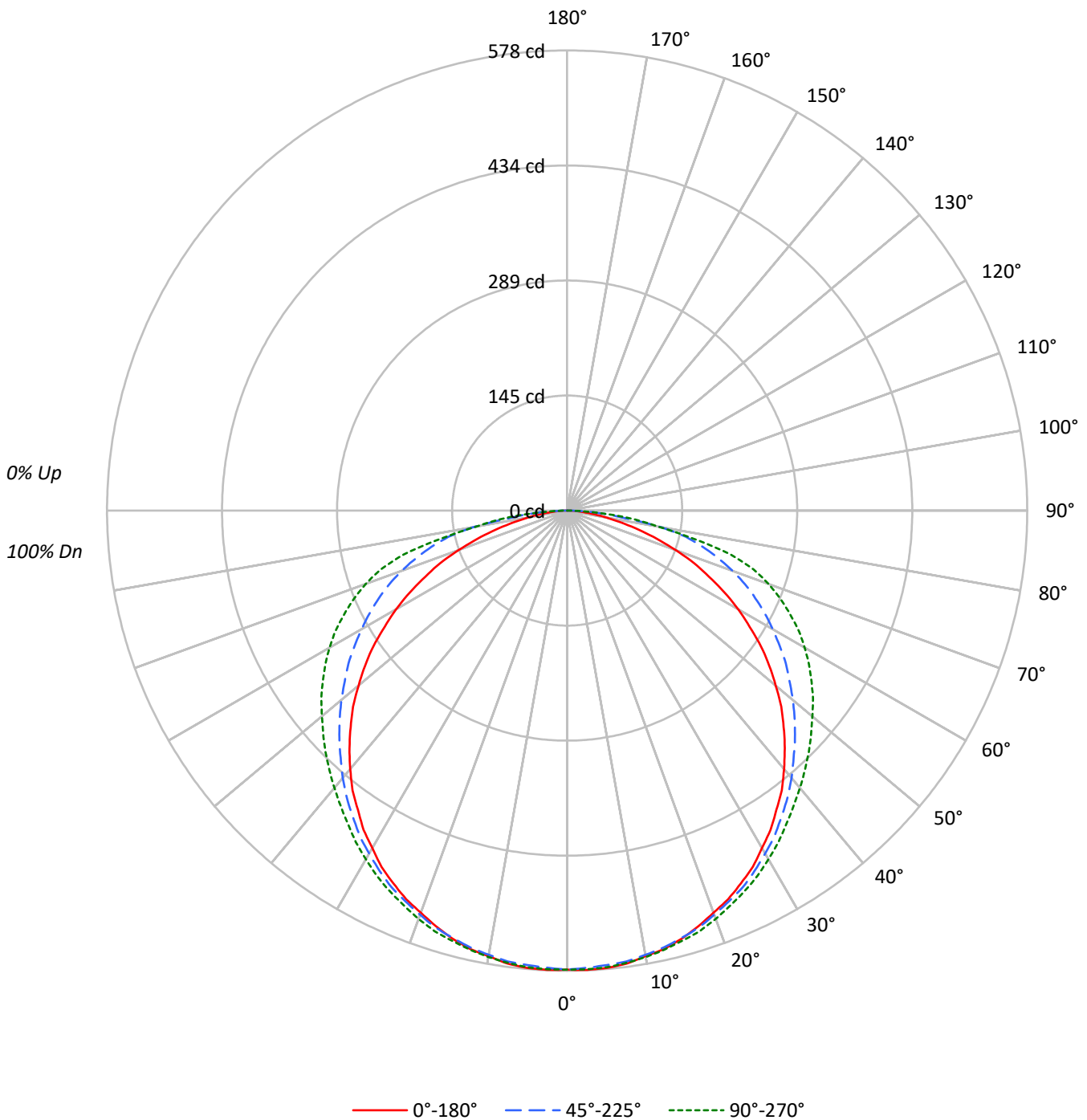
Input Watts (W): 20.181
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	776	776	776
5°	779	774	778
10°	777	774	778
15°	775	774	779
20°	770	774	781
25°	767	775	783
30°	760	773	786
35°	753	771	789
40°	744	770	799
45°	732	770	817
50°	716	775	841
55°	698	787	879
60°	668	803	928
65°	626	831	984
70°	569	869	1059
75°	482	917	1106
80°	380	923	895
85°	281	702	786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	3.0
10°-20°	157.4	8.6
20°-30°	240.7	13.1
30°-40°	294.3	16.0
40°-50°	313.7	17.1
50°-60°	299.9	16.4
60°-70°	254.0	13.9
70°-80°	170.7	9.3
80°-90°	48.2	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°	452.9	24.7
0°-40°	747.1	40.7
0°-60°	1360.7	74.2
0°-90°	1833.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1833.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	577	577	577	577	577	
5°	577	576	573	576	576	55
15°	557	557	556	560	559	157
25°	517	518	522	527	528	238
35°	458	462	469	478	480	287
45°	385	391	405	422	429	297
55°	297	308	336	362	375	265
65°	196	216	261	296	309	195
75°	93	126	176	206	213	99
85°	18	37	46	49	51	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	576.6	576.6	576.6	576.6	576.6
2.5°	577.5	577.5	574.8	576.6	576.6
5°	576.6	575.7	573.0	575.7	575.7
7.5°	573.9	573.0	571.2	573.9	573.0
10°	568.4	568.4	566.6	569.4	569.4
12.5°	563.9	563.0	562.1	565.7	564.8
15°	556.6	556.6	555.7	560.3	559.4
17.5°	547.5	548.4	549.3	553.0	553.9
20°	537.5	539.3	540.3	545.7	545.7
22.5°	528.4	529.3	531.2	536.6	536.6
25°	516.6	518.4	522.1	526.6	527.5
27.5°	504.8	505.7	510.2	516.6	517.5
30°	489.3	492.0	497.5	504.8	505.7
32.5°	475.7	478.4	484.8	492.0	493.9
35°	458.4	462.0	469.3	478.4	480.2
37.5°	442.9	445.7	454.8	464.8	467.5
40°	423.8	429.3	438.4	450.2	454.8
42.5°	404.7	410.2	421.1	436.6	442.0
45°	384.7	391.1	404.7	422.0	429.3
47.5°	364.7	372.0	387.5	407.5	415.6
50°	342.0	351.1	370.2	392.9	402.0
52.5°	320.1	331.1	352.0	377.4	389.3
55°	297.4	308.3	335.6	362.0	374.7
57.5°	271.9	286.5	316.5	346.5	360.2
60°	248.3	261.9	298.3	331.1	344.7
62.5°	222.8	241.0	280.1	314.7	328.3
65°	196.5	216.5	261.0	295.6	309.2
67.5°	172.8	194.6	241.9	276.5	290.1
70°	144.6	171.9	221.0	255.6	269.2
72.5°	118.2	148.3	199.2	232.8	245.6
75°	92.8	126.4	176.4	206.5	212.8
77.5°	69.1	104.6	152.8	165.5	161.0
80°	49.1	83.7	119.1	112.8	115.5
82.5°	31.8	63.7	73.7	83.7	86.4
85°	18.2	37.3	45.5	49.1	50.9
87.5°	8.2	13.6	18.2	18.2	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)