

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: P276817

Luminaire Tested: **24CZ2-40HE-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276817
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: 24CZ2-40HE-RDP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2016.1 lumens
Efficiency: N/A
Efficacy: 69.7 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

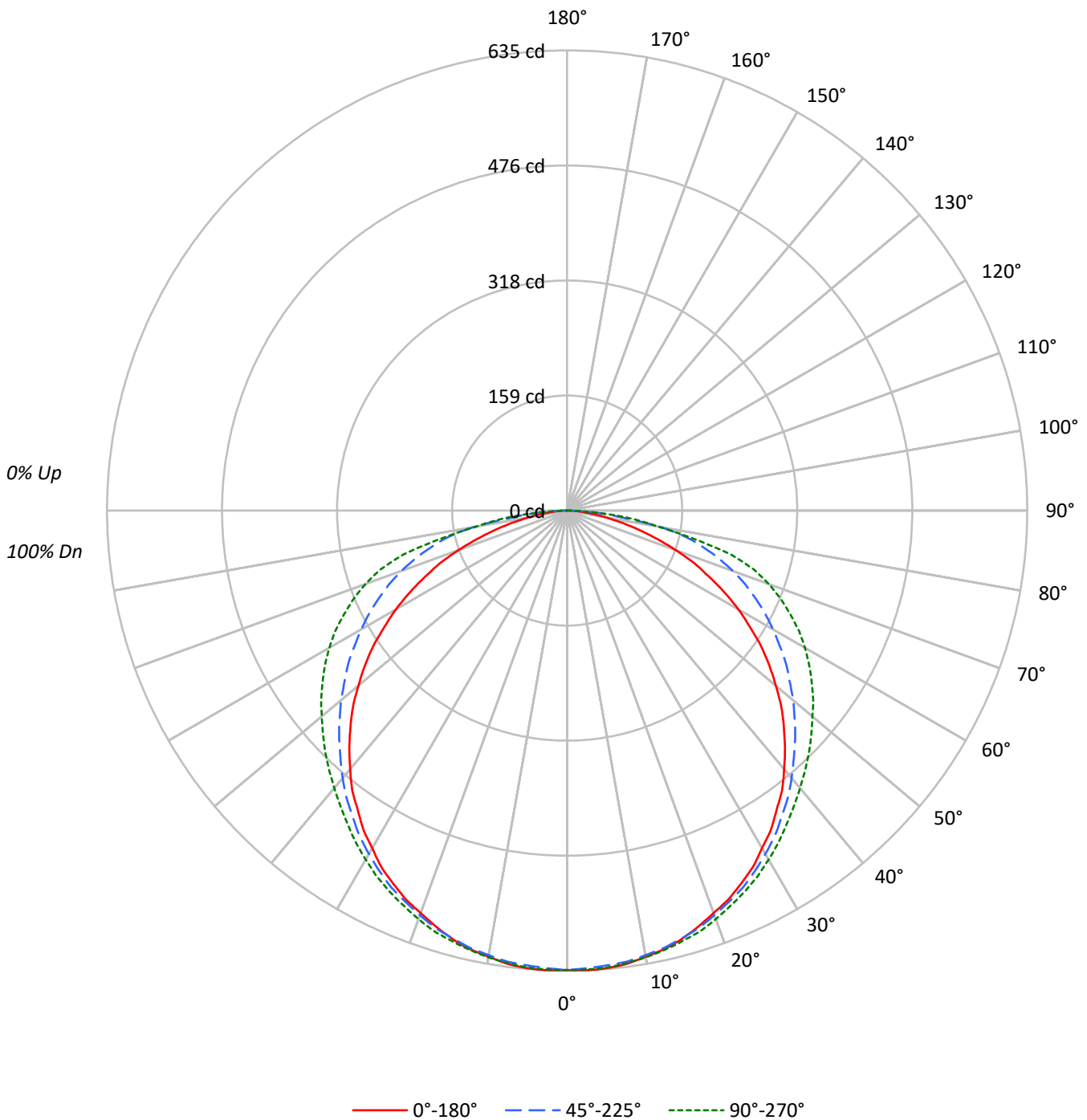
Input Watts (W): 28.922256
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	853	853	853
5°	856	851	855
10°	854	851	855
15°	852	851	857
20°	846	851	859
25°	843	852	861
30°	836	850	864
35°	828	848	867
40°	818	847	878
45°	805	847	898
50°	787	852	925
55°	767	866	966
60°	735	883	1020
65°	688	914	1082
70°	625	956	1164
75°	530	1009	1216
80°	418	1015	984
85°	309	772	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	3.0
10°-20°	173.1	8.6
20°-30°	264.7	13.1
30°-40°	323.6	16.0
40°-50°	344.9	17.1
50°-60°	329.7	16.4
60°-70°	279.3	13.9
70°-80°	187.7	9.3
80°-90°	53.0	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°	497.9	24.7
0°-40°	821.5	40.7
0°-60°	1496.1	74.2
0°-90°	2016.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2016.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	634	633	630	633	633	60
15°	612	612	611	616	615	173
25°	568	570	574	579	580	262
35°	504	508	516	526	528	316
45°	423	430	445	464	472	326
55°	327	339	369	398	412	291
65°	216	238	287	325	340	214
75°	102	139	194	227	234	109
85°	20	41	50	54	56	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634	634	634	634	634
2.5°	635	635	632	634	634
5°	634	633	630	633	633
7.5°	631	630	628	631	630
10°	625	625	623	626	626
12.5°	620	619	618	622	621
15°	612	612	611	616	615
17.5°	602	603	604	608	609
20°	591	593	594	600	600
22.5°	581	582	584	590	590
25°	568	570	574	579	580
27.5°	555	556	561	568	569
30°	538	541	547	555	556
32.5°	523	526	533	541	543
35°	504	508	516	526	528
37.5°	487	490	500	511	514
40°	466	472	482	495	500
42.5°	445	451	463	480	486
45°	423	430	445	464	472
47.5°	401	409	426	448	457
50°	376	386	407	432	442
52.5°	352	364	387	415	428
55°	327	339	369	398	412
57.5°	299	315	348	381	396
60°	273	288	328	364	379
62.5°	245	265	308	346	361
65°	216	238	287	325	340
67.5°	190	214	266	304	319
70°	159	189	243	281	296
72.5°	130	163	219	256	270
75°	102	139	194	227	234
77.5°	76	115	168	182	177
80°	54	92	131	124	127
82.5°	35	70	81	92	95
85°	20	41	50	54	56
87.5°	9	15	20	20	19
90°	0	0	0	0	0

(END OF REPORT)