

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: P263207

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-SQP-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2084.9 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

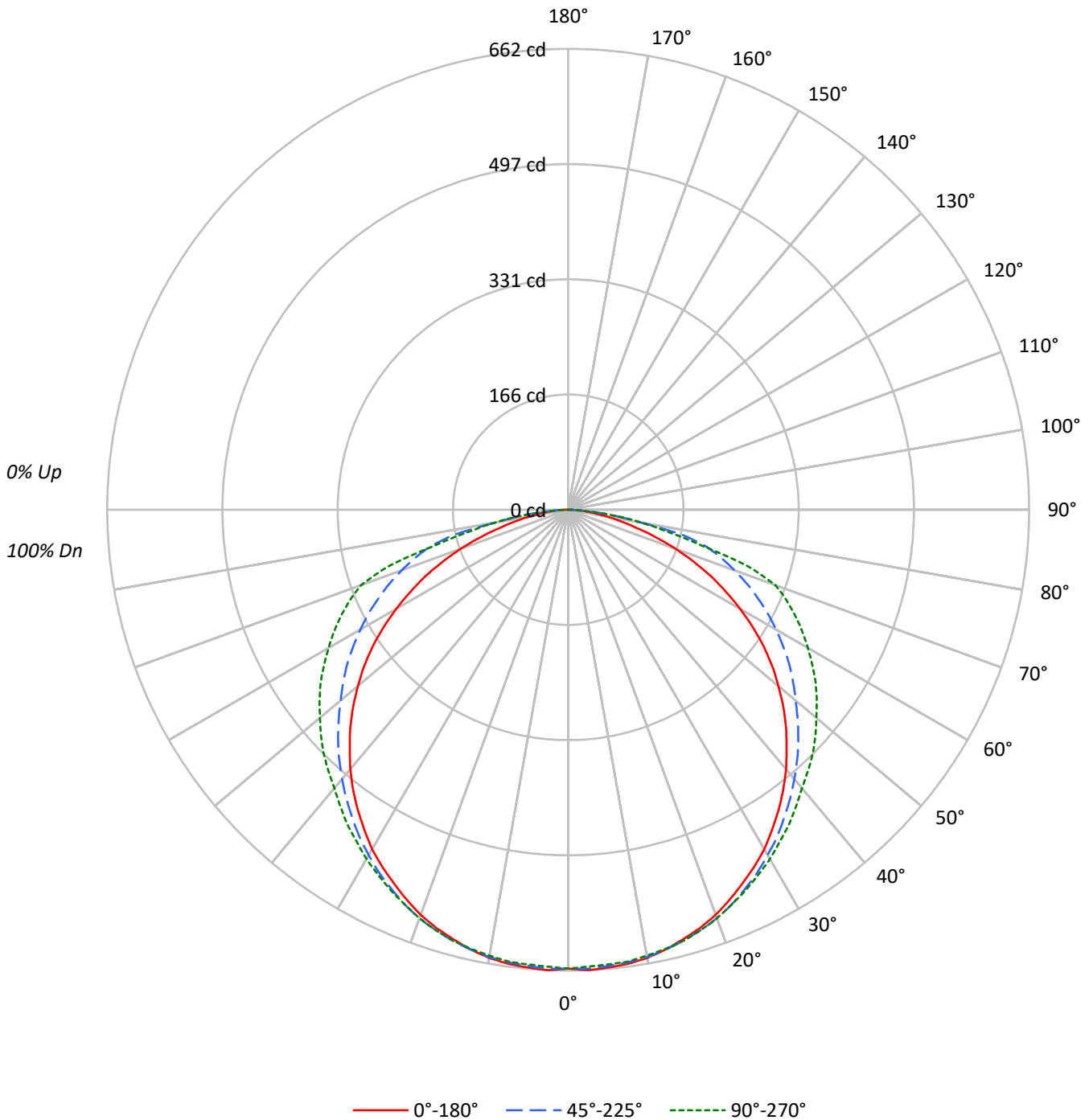
Input Watts (W): 31.110453
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60		70	64	59		67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44		55	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	887	887	887
5°	892	889	886
10°	893	892	889
15°	890	893	893
20°	887	894	894
25°	879	892	895
30°	875	890	900
35°	865	888	908
40°	855	887	917
45°	842	889	945
50°	825	893	974
55°	803	909	1018
60°	768	927	1069
65°	720	957	1145
70°	644	1000	1245
75°	532	1069	1030
80°	434	826	834
85°	349	548	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	3.0
10°-20°	180.6	8.7
20°-30°	276.0	13.2
30°-40°	337.6	16.2
40°-50°	361.3	17.3
50°-60°	345.9	16.6
60°-70°	292.6	14.0
70°-80°	185.5	8.9
80°-90°	42.7	2.0
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°	519.3	24.9
0°-40°	856.9	41.1
0°-60°	1564.1	75.0
0°-90°	2084.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2084.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	660	657	658	657	656	63
15°	639	638	641	641	641	180
25°	592	592	601	603	603	273
35°	527	530	541	548	552	329
45°	443	450	467	487	496	341
55°	342	353	388	420	434	305
65°	226	248	300	341	360	223
75°	102	144	206	205	198	111
85°	23	34	36	32	33	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	659.1	659.1	659.1	659.1	659.1
2.5°	662.3	659.1	660.1	659.1	656.9
5°	660.1	656.9	658.0	656.9	655.8
7.5°	658.0	654.8	655.8	654.8	654.8
10°	653.7	650.4	652.6	651.5	650.4
12.5°	647.2	645.1	647.2	646.1	646.1
15°	638.6	637.5	640.8	640.8	640.8
17.5°	630.0	628.9	633.2	633.2	633.2
20°	619.2	618.1	624.6	624.6	624.6
22.5°	606.3	605.2	613.8	613.8	613.8
25°	592.3	592.3	600.9	603.1	603.1
27.5°	578.3	578.3	588.0	591.2	591.2
30°	563.2	563.2	572.9	577.2	579.4
32.5°	544.9	547.1	557.8	563.2	565.4
35°	526.6	529.8	540.6	548.1	552.5
37.5°	507.2	510.5	523.4	532.0	537.4
40°	486.8	491.1	505.1	515.8	522.3
42.5°	464.1	470.6	486.8	500.8	509.4
45°	442.6	450.1	467.4	486.8	496.5
47.5°	418.9	427.5	446.9	471.7	481.4
50°	394.1	402.8	426.5	454.5	465.2
52.5°	369.4	379.1	407.1	437.2	450.1
55°	342.5	353.2	387.7	420.0	434.0
57.5°	314.5	327.4	366.1	400.6	415.7
60°	285.4	301.5	344.6	381.2	397.4
62.5°	255.2	274.6	323.1	361.8	379.1
65°	226.1	247.7	300.5	341.4	359.7
67.5°	194.9	221.8	277.8	322.0	339.2
70°	163.7	194.9	254.1	299.4	316.6
72.5°	132.5	170.2	230.5	271.4	271.4
75°	102.3	144.3	205.7	204.6	198.2
77.5°	77.5	120.6	169.1	144.3	145.4
80°	56.0	96.9	106.6	106.6	107.7
82.5°	37.7	74.3	68.9	67.8	70.0
85°	22.6	34.5	35.5	32.3	33.4
87.5°	10.8	11.8	9.7	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)