

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: P263760

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45SE-RDP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2974.0 lumens
Efficiency: N/A
Efficacy: 85.7 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

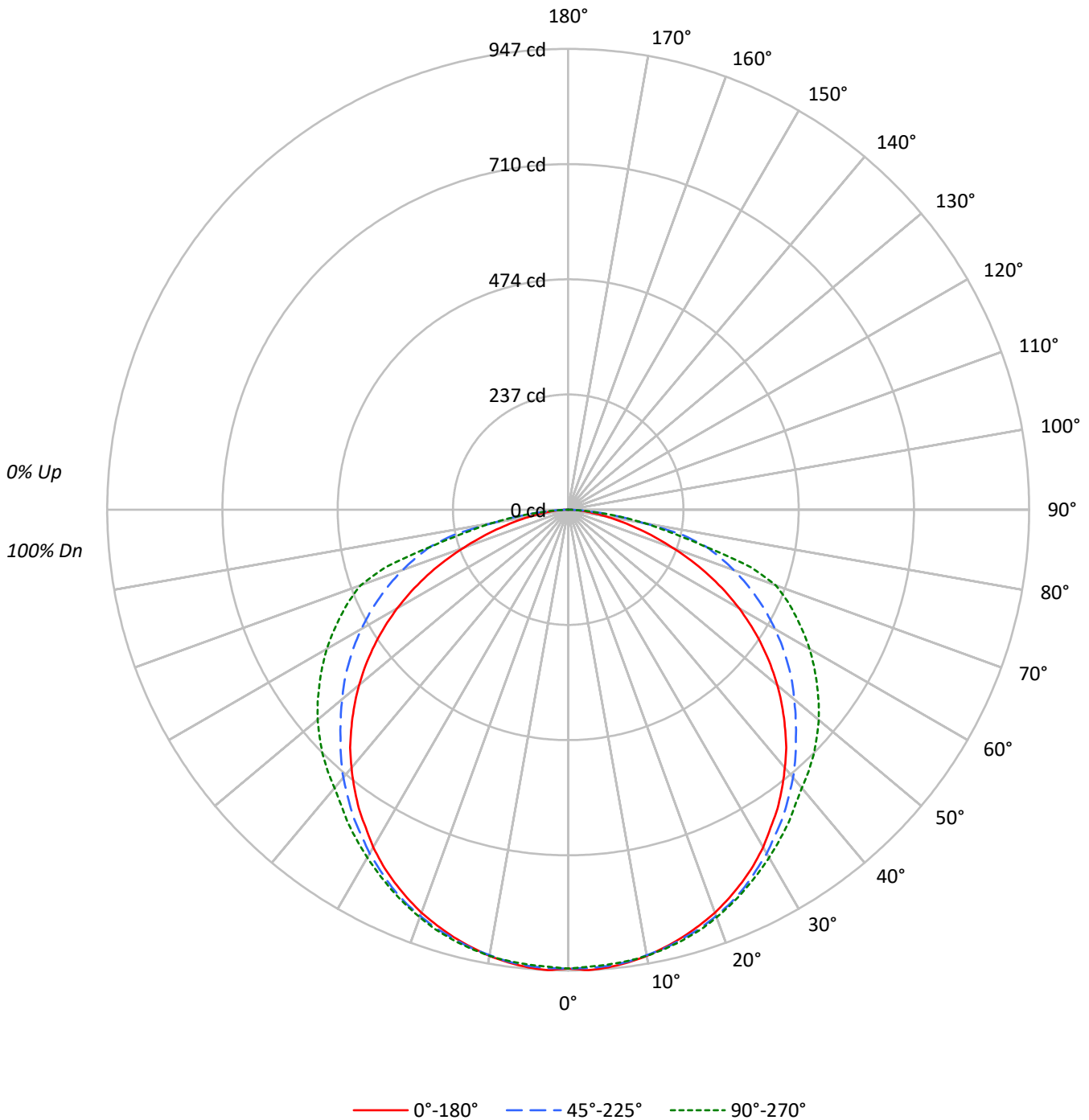
Input Watts (W): 34.689
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1269	1269	1269
5°	1275	1271	1267
10°	1272	1270	1272
15°	1266	1270	1275
20°	1262	1272	1276
25°	1254	1271	1278
30°	1244	1267	1283
35°	1231	1265	1294
40°	1216	1263	1311
45°	1198	1259	1357
50°	1174	1269	1407
55°	1140	1291	1463
60°	1091	1320	1540
65°	1016	1361	1641
70°	899	1423	1785
75°	753	1522	1499
80°	601	1203	1247
85°	474	814	746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	3.0
10°-20°	257.3	8.7
20°-30°	393.1	13.2
30°-40°	480.6	16.2
40°-50°	514.4	17.3
50°-60°	493.4	16.6
60°-70°	416.6	14.0
70°-80°	266.2	9.0
80°-90°	62.9	2.1
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°	739.8	24.9
0°-40°	1220.4	41.0
0°-60°	2228.2	74.9
0°-90°	2974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2974.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	943	943	943	943	943	
5°	944	938	941	940	938	90
15°	909	906	912	915	915	257
25°	845	843	856	859	861	389
35°	750	755	770	780	788	469
45°	630	640	662	692	713	486
55°	486	502	550	600	624	434
65°	319	350	428	488	515	315
75°	145	206	293	299	288	156
85°	31	51	53	51	48	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	942.8	942.8	942.8	942.8	942.8
2.5°	947.2	941.3	942.8	942.8	939.9
5°	944.2	938.4	941.3	939.9	938.4
7.5°	938.4	934.0	936.9	936.9	935.5
10°	931.1	926.7	929.6	931.1	931.1
12.5°	920.8	917.9	922.3	922.3	923.8
15°	909.1	906.2	912.0	915.0	915.0
17.5°	895.9	894.5	901.8	903.3	904.7
20°	881.3	879.8	888.6	888.6	891.5
22.5°	863.7	862.3	874.0	874.0	876.9
25°	844.7	843.2	856.4	859.3	860.8
27.5°	824.2	822.7	835.9	840.3	843.2
30°	800.8	800.8	815.4	821.3	825.7
32.5°	774.4	778.8	792.0	800.8	806.6
35°	749.5	755.4	770.0	780.3	787.6
37.5°	721.7	727.6	743.7	756.9	765.6
40°	692.4	699.8	718.8	733.4	746.6
42.5°	663.2	670.5	691.0	712.9	730.5
45°	629.5	639.7	661.7	692.4	712.9
47.5°	595.8	606.1	633.9	672.0	692.4
50°	560.7	572.4	606.1	650.0	672.0
52.5°	524.1	537.3	579.7	626.6	648.5
55°	486.0	502.1	550.4	600.2	623.6
57.5°	446.5	464.1	521.2	573.9	598.8
60°	405.5	427.5	490.4	546.1	572.4
62.5°	363.1	389.4	459.7	516.8	544.6
65°	319.1	349.9	427.5	487.5	515.3
67.5°	273.8	314.7	395.3	458.2	486.0
70°	228.4	276.7	361.6	426.0	453.8
72.5°	185.9	241.6	327.9	387.9	393.8
75°	144.9	206.4	292.8	298.6	288.4
77.5°	108.3	171.3	241.6	215.2	213.7
80°	77.6	137.6	155.2	159.6	161.0
82.5°	51.2	103.9	101.0	103.9	102.5
85°	30.7	51.2	52.7	51.2	48.3
87.5°	14.6	19.0	14.6	13.2	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)