

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: P#

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
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-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3010.7 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

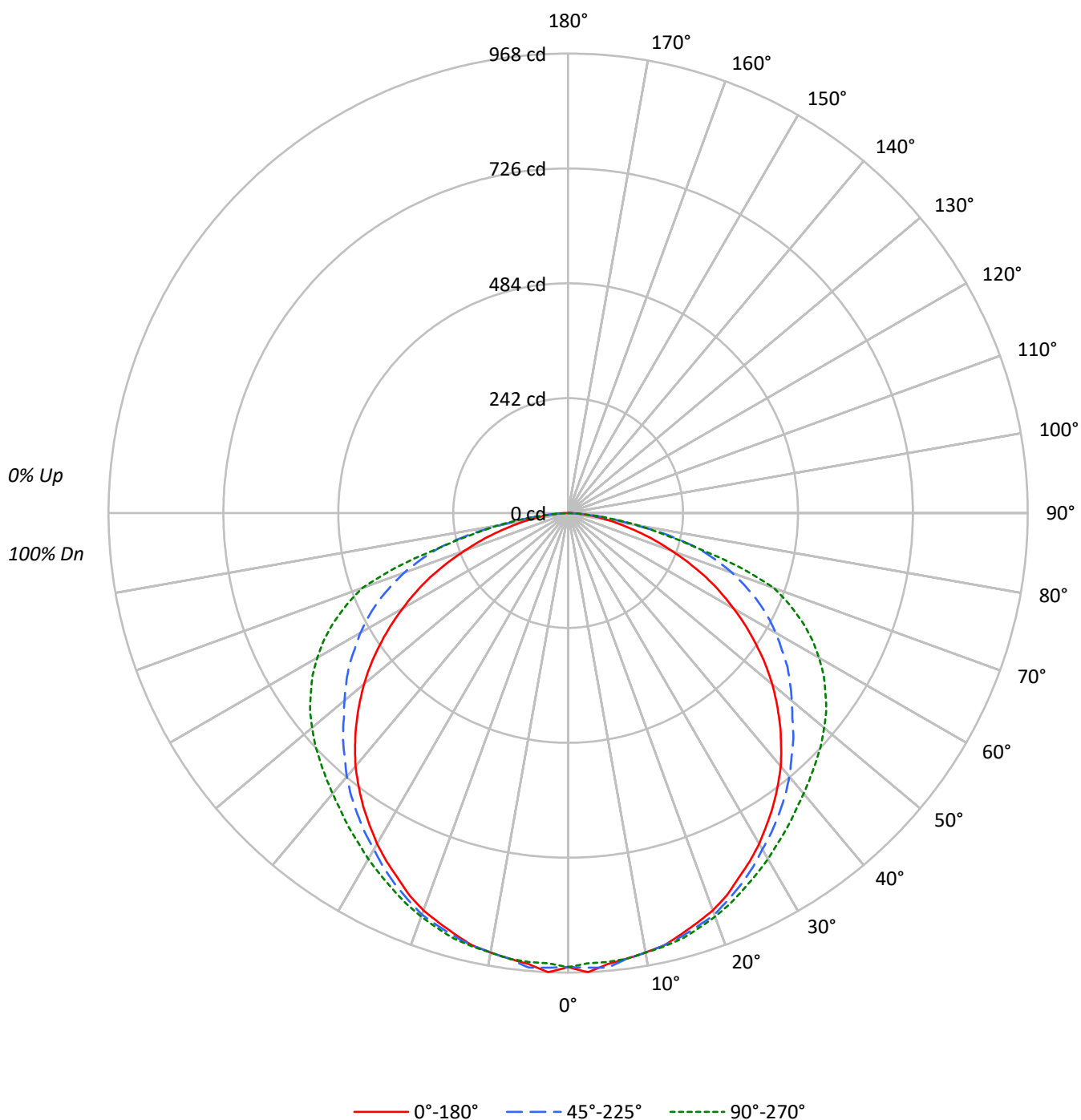
Input Watts (W): 39.91
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1287	1287	1287
5°	1286	1292	1277
10°	1278	1272	1273
15°	1271	1268	1276
20°	1264	1265	1272
25°	1245	1250	1269
30°	1232	1234	1271
35°	1215	1226	1280
40°	1199	1219	1301
45°	1172	1212	1339
50°	1141	1211	1390
55°	1096	1229	1449
60°	1037	1245	1511
65°	968	1263	1567
70°	852	1260	1593
75°	723	1207	1209
80°	587	821	903
85°	449	450	414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	3.0
10°-20°	260.7	8.7
20°-30°	397.4	13.2
30°-40°	486.2	16.1
40°-50°	523.1	17.4
50°-60°	506.7	16.8
60°-70°	429.3	14.3
70°-80°	259.5	8.6
80°-90°	57.0	1.9
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°	748.9	24.9
0°-40°	1235.1	41.0
0°-60°	2264.9	75.2
0°-90°	3010.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3010.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	954	954	961	956	949	91
15°	919	921	924	926	928	259
25°	849	853	863	870	874	392
35°	753	758	774	795	807	471
45°	631	643	671	713	739	487
55°	484	505	564	629	662	432
65°	320	355	442	512	545	315
75°	152	206	278	283	276	163
85°	37	44	47	44	42	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.3	956.3	956.3	956.3	956.3
2.5°	968.0	965.6	958.6	953.9	949.3
5°	953.9	953.9	960.9	956.3	949.3
7.5°	946.9	946.9	946.9	958.6	946.9
10°	939.9	942.2	939.9	949.3	939.9
12.5°	932.9	932.9	932.9	935.2	935.2
15°	918.9	921.2	923.5	925.9	928.2
17.5°	904.8	907.2	911.8	914.2	916.5
20°	890.8	893.1	900.2	900.2	904.8
22.5°	872.1	872.1	881.5	883.8	890.8
25°	848.7	853.4	862.7	869.8	874.4
27.5°	827.7	832.4	841.7	851.1	858.1
30°	804.3	809.0	818.3	832.4	841.7
32.5°	778.6	783.3	797.3	813.6	823.0
35°	752.9	757.5	773.9	794.9	806.6
37.5°	724.8	731.8	750.5	773.9	787.9
40°	696.7	703.8	724.8	750.5	771.6
42.5°	664.0	673.4	696.7	731.8	755.2
45°	631.3	643.0	671.0	713.1	738.8
47.5°	596.2	607.9	640.6	694.4	722.5
50°	561.1	575.2	614.9	673.4	703.8
52.5°	523.7	537.8	589.2	652.3	685.1
55°	484.0	505.0	563.5	628.9	661.7
57.5°	444.2	467.6	533.1	603.2	638.3
60°	402.1	430.2	505.0	575.2	610.2
62.5°	362.4	392.8	474.6	544.8	579.8
65°	320.3	355.4	441.9	512.0	544.8
67.5°	275.9	320.3	404.5	472.3	505.0
70°	231.5	282.9	367.1	430.2	460.6
72.5°	191.7	245.5	325.0	378.8	378.8
75°	152.0	205.8	278.2	282.9	275.9
77.5°	116.9	168.3	217.4	198.7	203.4
80°	86.5	128.6	137.9	145.0	149.6
82.5°	58.5	86.5	88.8	93.5	93.5
85°	37.4	44.4	46.8	44.4	42.1
87.5°	16.4	18.7	14.0	9.4	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)