

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-SQP-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-SQP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3158.4 lumens
Efficiency: N/A
Efficacy: 79.1 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

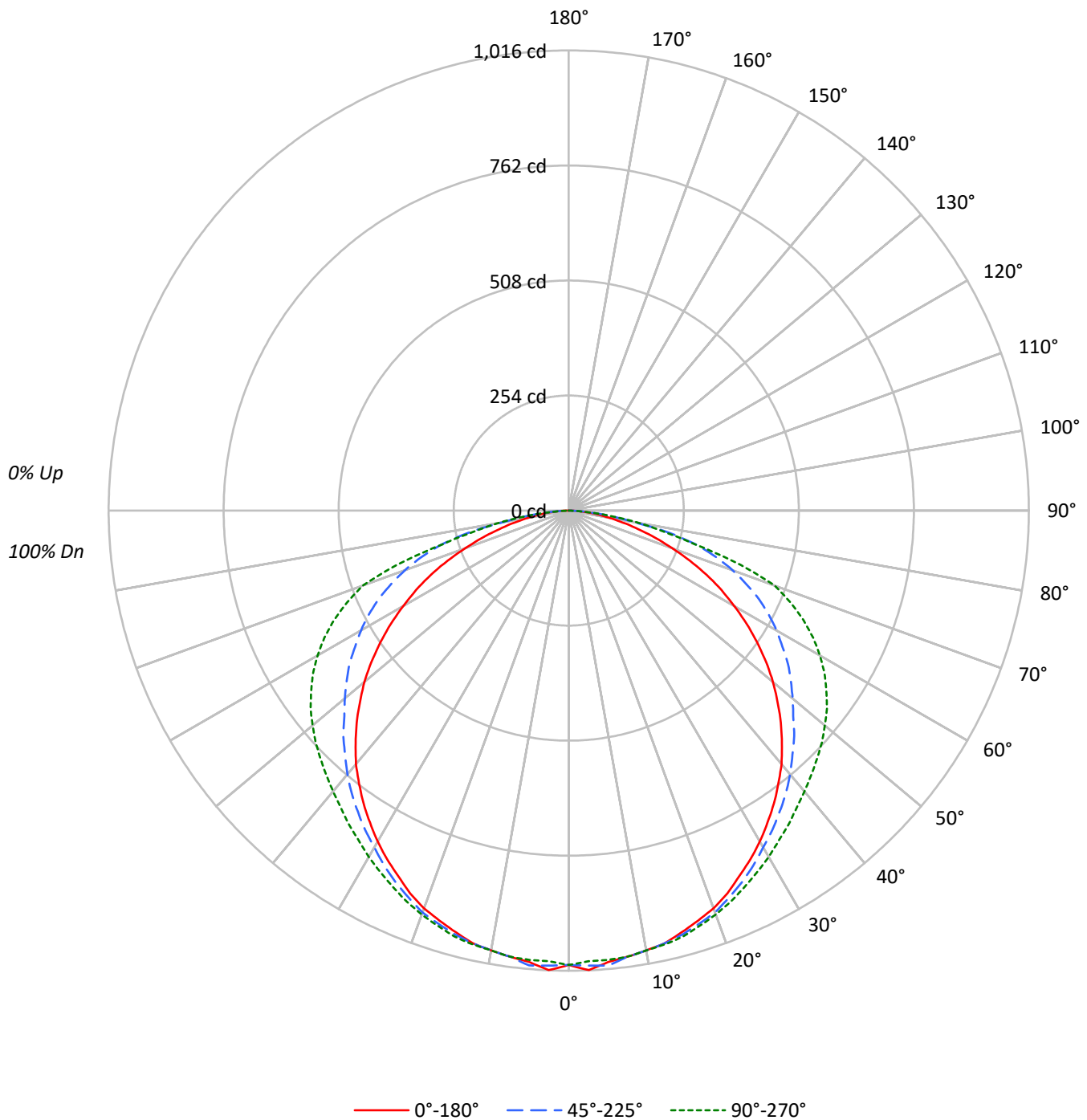
Input Watts (W): 39.91
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
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°	1350	1350	1350
5°	1349	1355	1339
10°	1341	1335	1335
15°	1334	1331	1339
20°	1326	1326	1335
25°	1307	1311	1331
30°	1292	1294	1333
35°	1275	1286	1343
40°	1257	1279	1364
45°	1229	1272	1405
50°	1197	1270	1459
55°	1150	1289	1520
60°	1088	1306	1585
65°	1015	1325	1643
70°	894	1322	1671
75°	758	1267	1268
80°	616	862	948
85°	471	472	434



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.0
10°-20°	273.5	8.7
20°-30°	416.9	13.2
30°-40°	510.0	16.1
40°-50°	548.8	17.4
50°-60°	531.6	16.8
60°-70°	450.3	14.3
70°-80°	272.2	8.6
80°-90°	59.8	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°	785.6	24.9
0°-40°	1295.7	41.0
0°-60°	2376.1	75.2
0°-90°	3158.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1001	1001	1008	1003	996	95
15°	964	966	969	971	974	272
25°	890	895	905	912	917	411
35°	790	795	812	834	846	494
45°	662	674	704	748	775	510
55°	508	530	591	660	694	454
65°	336	373	464	537	572	331
75°	159	216	292	297	289	171
85°	39	47	49	47	44	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.2	1003.2	1003.2	1003.2	1003.2
2.5°	1015.5	1013.0	1005.6	1000.7	995.8
5°	1000.7	1000.7	1008.1	1003.2	995.8
7.5°	993.4	993.4	993.4	1005.6	993.4
10°	986.0	988.5	986.0	995.8	986.0
12.5°	978.7	978.7	978.7	981.1	981.1
15°	964.0	966.4	968.9	971.3	973.8
17.5°	949.2	951.7	956.6	959.0	961.5
20°	934.5	937.0	944.3	944.3	949.2
22.5°	914.9	914.9	924.7	927.2	934.5
25°	890.4	895.3	905.1	912.4	917.3
27.5°	868.3	873.2	883.0	892.8	900.2
30°	843.8	848.7	858.5	873.2	883.0
32.5°	816.8	821.7	836.4	853.6	863.4
35°	789.8	794.7	811.9	834.0	846.2
37.5°	760.4	767.7	787.3	811.9	826.6
40°	730.9	738.3	760.4	787.3	809.4
42.5°	696.6	706.4	730.9	767.7	792.3
45°	662.3	674.5	704.0	748.1	775.1
47.5°	625.5	637.7	672.1	728.5	757.9
50°	588.7	603.4	645.1	706.4	738.3
52.5°	549.4	564.1	618.1	684.3	718.7
55°	507.7	529.8	591.1	659.8	694.1
57.5°	466.0	490.6	559.2	632.8	669.6
60°	421.9	451.3	529.8	603.4	640.2
62.5°	380.2	412.1	497.9	571.5	608.3
65°	336.0	372.8	463.6	537.2	571.5
67.5°	289.4	336.0	424.3	495.5	529.8
70°	242.8	296.8	385.1	451.3	483.2
72.5°	201.1	257.5	340.9	397.4	397.4
75°	159.4	215.8	291.9	296.8	289.4
77.5°	122.6	176.6	228.1	208.5	213.4
80°	90.8	134.9	144.7	152.1	157.0
82.5°	61.3	90.8	93.2	98.1	98.1
85°	39.2	46.6	49.1	46.6	44.2
87.5°	17.2	19.6	14.7	9.8	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)