

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P894730

Luminaire Tested: 8TMB-16HL-RFLW-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-16HL-RFLW-UNV-L935
Description: 16000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K
Light Source: -
Ballast/Driver: -

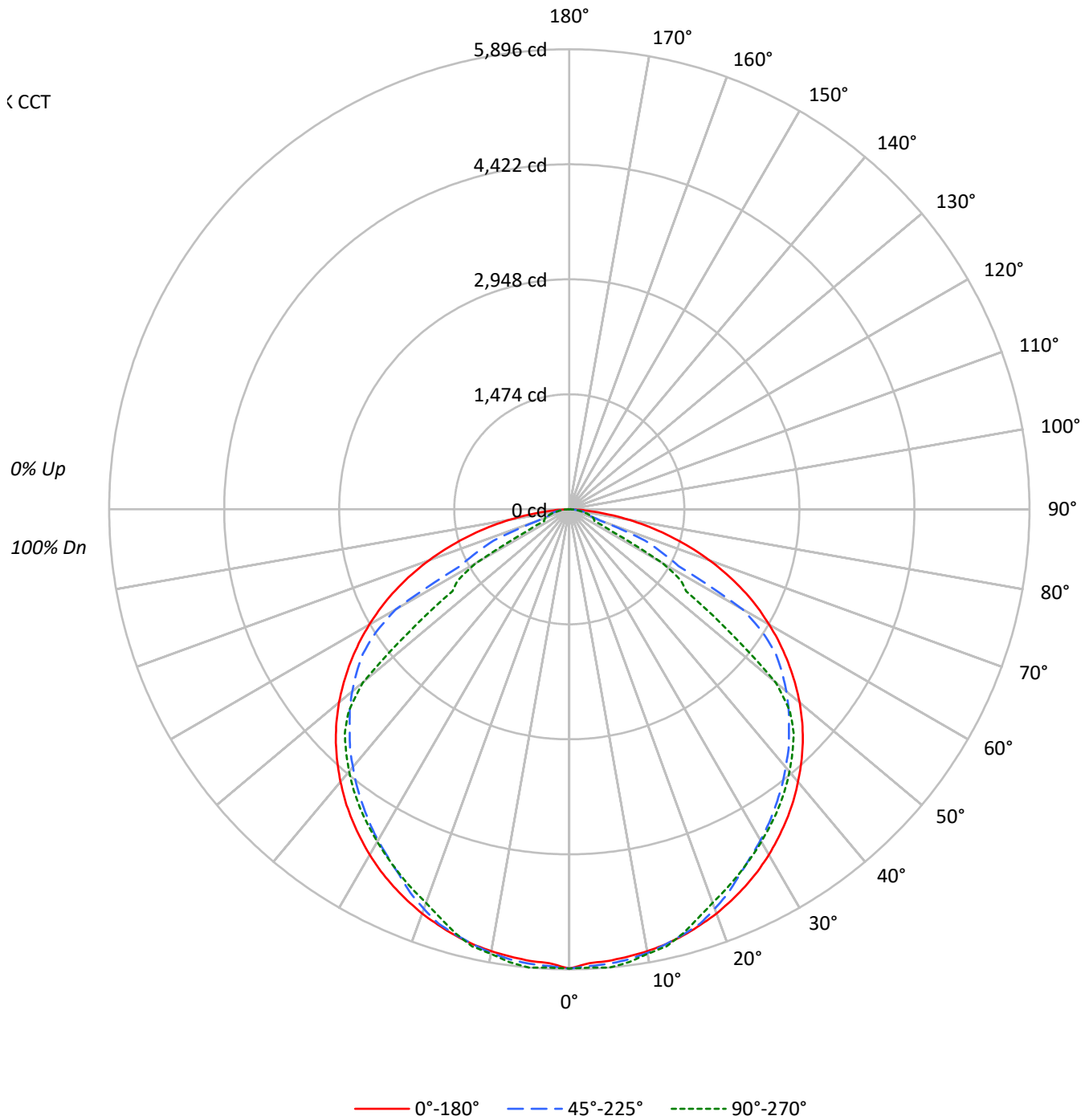
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15343.0 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 115.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 4.23
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	56	56	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	49	49	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	43	43	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	38111	38111	38111
5°	37761	38009	38326
10°	37815	37959	38030
15°	37898	37813	37728
20°	37994	37557	36981
25°	38098	36893	36815
30°	38242	36642	36792
35°	38381	36502	36947
40°	38543	36457	37102
45°	38749	36440	37254
50°	38807	36579	34806
55°	38638	36467	20640
60°	38310	33236	17898
65°	37682	20092	5419
70°	36192	7967	6216
75°	33533	6535	6352
80°	29016	6899	5952
85°	20618	6471	5661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 38807 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.5	3.6
10°-20°	1596.5	10.4
20°-30°	2412.6	15.7
30°-40°	2943.6	19.2
40°-50°	3113.7	20.3
50°-60°	2579.0	16.8
60°-70°	1433.7	9.3
70°-80°	581.2	3.8
80°-90°	125.3	0.8
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°	4566.5	29.8
0°-40°	7510.1	48.9
0°-60°	13202.9	86.1
0°-90°	15343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5885	5885	5885	5885	5885	
5°	5809	5913	5847	5856	5896	553
15°	5653	5740	5640	5637	5628	1597
25°	5332	5370	5164	5131	5153	2460
35°	4855	4795	4618	4636	4674	3039
45°	4231	4014	3979	4028	4068	3262
55°	3422	3190	3230	2216	1828	3058
65°	2459	2254	1311	441	354	2425
75°	1340	747	261	258	254	1415
85°	278	92	87	80	76	348
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5885.4	5885.4	5885.4	5885.4	5885.4
2.5°	5821.9	5923.4	5860.0	5872.7	5878.1
5°	5809.2	5912.6	5847.3	5856.3	5896.2
7.5°	5782.0	5887.2	5818.2	5823.7	5854.5
10°	5751.1	5847.3	5772.9	5763.8	5783.8
12.5°	5709.4	5796.5	5709.4	5713.1	5738.4
15°	5653.2	5740.3	5640.5	5636.9	5627.8
17.5°	5586.1	5667.7	5569.8	5511.7	5491.8
20°	5513.6	5577.0	5450.1	5361.2	5366.6
22.5°	5426.5	5480.9	5321.3	5239.7	5263.3
25°	5332.2	5370.3	5163.5	5130.9	5152.6
27.5°	5228.8	5257.8	5027.5	5020.2	5038.4
30°	5114.5	5125.4	4900.5	4896.9	4920.5
32.5°	4987.6	4969.5	4764.5	4768.1	4799.0
35°	4855.2	4795.3	4617.6	4635.7	4673.8
37.5°	4715.5	4608.5	4472.5	4496.1	4537.8
40°	4559.6	4414.5	4312.9	4349.2	4389.1
42.5°	4400.0	4211.3	4158.7	4193.2	4231.3
45°	4231.3	4013.6	3979.2	4028.2	4068.1
47.5°	4048.1	3819.6	3814.1	3852.2	3834.1
50°	3852.2	3618.3	3631.0	3580.2	3455.0
52.5°	3641.8	3409.7	3435.1	3215.6	2599.0
55°	3422.4	3190.2	3230.1	2216.3	1828.2
57.5°	3197.5	2965.3	2940.0	1695.8	1694.0
60°	2958.1	2736.8	2566.3	1498.1	1382.0
62.5°	2716.9	2499.2	1576.1	1128.1	634.8
65°	2459.3	2254.4	1311.3	440.7	353.7
67.5°	2189.1	2005.9	1050.1	331.9	344.6
70°	1911.6	1748.4	420.8	321.0	328.3
72.5°	1628.7	1349.4	279.3	297.4	297.4
75°	1340.3	747.2	261.2	257.5	253.9
77.5°	1053.7	500.6	228.5	212.2	206.8
80°	778.1	179.6	185.0	165.0	159.6
82.5°	515.1	139.7	132.4	119.7	116.1
85°	277.5	92.5	87.1	79.8	76.2
87.5°	99.8	47.2	47.2	38.1	34.5
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	25.33	26.90	25.69	27.21	27.53	21.32	22.89	21.68	23.20	23.52
	3H	27.33	28.74	27.71	29.07	29.43	21.45	22.86	21.83	23.18	23.54
	4H	27.94	29.26	28.34	29.61	29.99	21.57	22.89	21.97	23.23	23.61
	6H	28.34	29.56	28.76	29.93	30.32	21.67	22.89	22.09	23.26	23.65
	8H	28.46	29.62	28.89	30.01	30.41	21.71	22.87	22.13	23.26	23.66
	12H	28.53	29.64	28.96	30.03	30.45	21.73	22.84	22.16	23.22	23.65
4H	2H	25.46	26.77	25.85	27.12	27.50	22.04	23.36	22.44	23.71	24.09
	3H	27.62	28.70	28.03	29.10	29.50	22.24	23.33	22.65	23.73	24.13
	4H	28.27	29.25	28.70	29.66	30.10	22.39	23.37	22.83	23.79	24.22
	6H	28.72	29.56	29.17	30.01	30.47	22.56	23.41	23.02	23.85	24.31
	8H	28.86	29.65	29.32	30.09	30.56	22.61	23.40	23.07	23.85	24.32
	12H	28.96	29.67	29.44	30.15	30.62	22.66	23.37	23.14	23.84	24.32
8H	4H	28.21	29.00	28.67	29.44	29.91	22.67	23.46	23.13	23.90	24.37
	6H	28.65	29.30	29.14	29.79	30.27	22.87	23.53	23.37	24.02	24.50
	8H	28.80	29.39	29.31	29.90	30.38	22.96	23.55	23.47	24.05	24.54
	12H	28.93	29.45	29.44	29.94	30.51	23.04	23.56	23.55	24.06	24.62
12H	4H	28.18	28.89	28.66	29.37	29.84	22.68	23.39	23.16	23.87	24.34
	6H	28.61	29.20	29.12	29.71	30.19	22.89	23.48	23.40	23.99	24.48
	8H	28.78	29.30	29.29	29.79	30.36	23.01	23.54	23.52	24.03	24.59