

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: NEO-RAY

Report Number: P1031975

Luminaire Tested: S123DIW-B775D755UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031975
REPORT IS A COMBINATION OF REPORTS P992155 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B775D755UB40-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

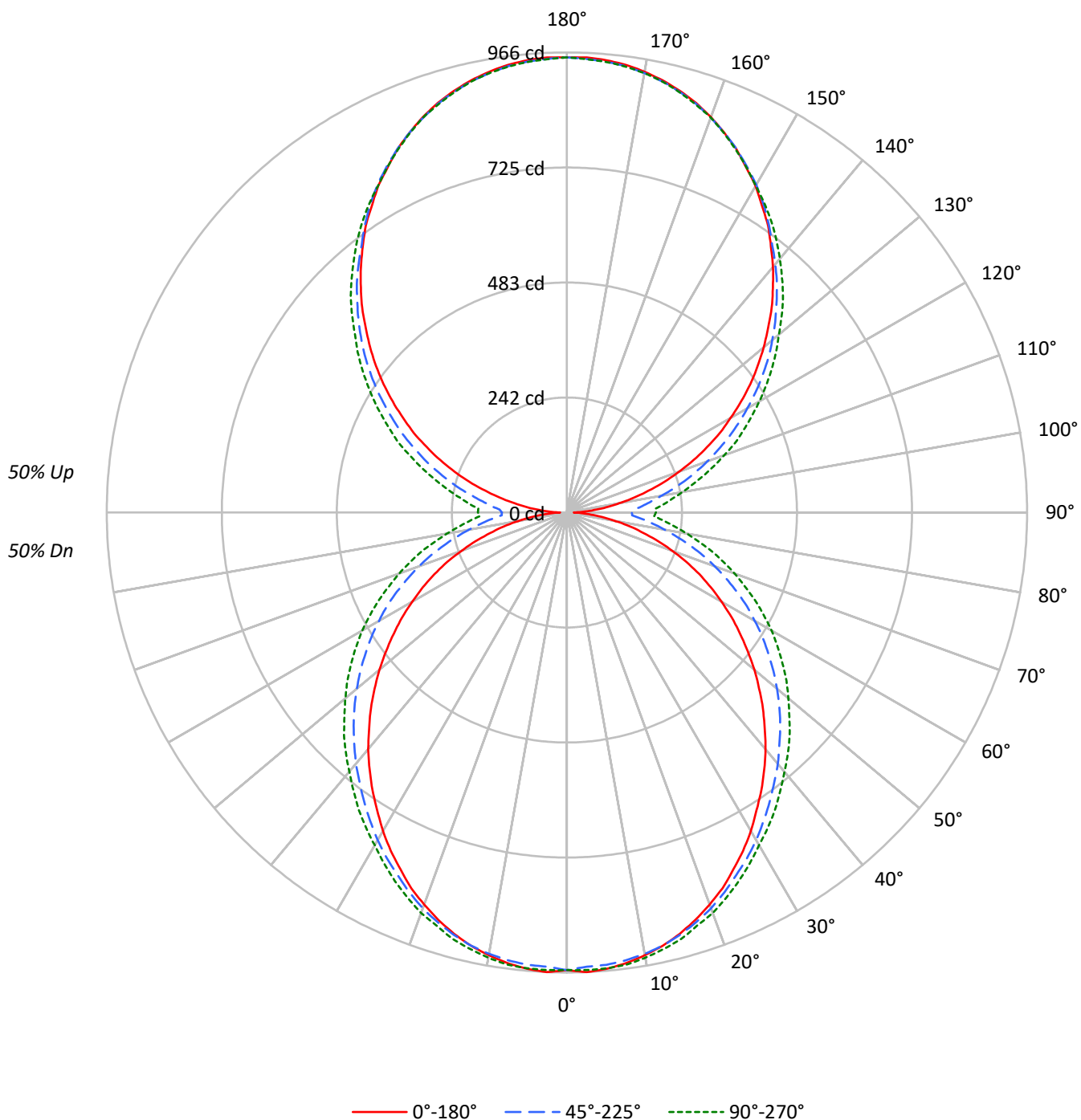
Lumens per Lamp: N/A
Luminaire Lumens: 5879.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 59.1
Input Voltage (V):
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: 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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	107	107	107	107	99	99	99	99		84	84	84		69	69	69		56	56	56
1	97	92	88	84	89	85	81	78		72	69	66		59	57	56		48	47	46
2	88	80	73	68	81	74	68	63		62	58	54		52	48	46		42	40	38
3	80	70	62	56	73	64	58	52		54	49	45		45	41	38		37	34	32
4	73	62	53	47	67	57	50	44		48	43	38		40	36	32		33	29	27
5	67	55	46	40	61	51	43	38		43	37	33		36	31	28		29	26	23
6	61	49	41	35	56	45	38	32		39	33	28		32	28	24		26	23	20
7	57	44	36	30	52	41	34	28		35	29	25		29	25	21		24	21	18
8	53	40	32	27	48	37	30	25		32	26	22		27	22	19		22	19	16
9	49	36	29	24	45	34	27	22		29	24	20		25	20	17		20	17	14
10	46	33	26	21	42	31	24	20		27	21	18		23	18	15		19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10342	10342	10342
5°	10370	10039	10030
10°	10273	9766	9692
15°	10137	9466	9333
20°	9944	9132	8948
25°	9706	8754	8548
30°	9464	8414	8147
35°	9191	8055	7821
40°	8931	7728	7476
45°	8642	7412	7193
50°	8357	7097	6883
55°	8041	6775	6600
60°	7732	6446	6309
65°	7414	6095	5969
70°	6935	5701	5618
75°	6330	5252	5255
80°	5624	4797	4844
85°	4928	4431	4546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8642 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	1.6
10°-20°	259.8	4.4
20°-30°	388.5	6.6
30°-40°	463.9	7.9
40°-50°	485.4	8.3
50°-60°	455.5	7.7
60°-70°	380.5	6.5
70°-80°	272.0	4.6
80°-90°	163.9	2.8
90°-100°	163.2	2.8
100°-110°	261.0	4.4
110°-120°	366.9	6.2
120°-130°	445.5	7.6
130°-140°	481.5	8.2
140°-150°	463.5	7.9
150°-160°	388.0	6.6
160°-170°	258.3	4.4
170°-180°	90.4	1.5
0°-30°	739.5	12.6
0°-40°	1203.4	20.5
0°-60°	2144.3	36.5
0°-90°	2960.6	50.4
90°-120°	791.1	13.5
90°-150°	2181.6	37.1
90°-180°	2918.0	49.6
0°-180°	5879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	962	960	954	962	961	91
15°	916	919	918	928	927	258
25°	827	837	840	854	854	381
35°	712	728	742	758	762	445
45°	582	607	633	653	662	449
55°	444	478	516	544	553	397
65°	307	348	394	425	435	303
75°	166	216	268	302	315	178
85°	51	104	159	195	205	53
90°	14	73	136	175	187	13
95°	56	102	159	195	205	58
105°	177	204	256	285	296	189
115°	324	339	375	401	409	321
125°	470	472	501	520	524	420
135°	608	611	622	638	642	468
145°	736	736	739	746	748	459
155°	842	842	842	845	840	387
165°	917	914	914	919	914	259
175°	953	950	950	955	950	91
180°	956	956	956	956	956	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.8	960.8	960.8	960.8	960.8
2.5°	966.0	962.9	954.5	962.9	961.8
5°	961.8	959.7	953.5	961.8	960.8
7.5°	954.5	954.5	948.2	958.7	957.6
10°	944.0	946.1	940.9	951.4	949.3
12.5°	931.5	934.6	931.5	940.9	938.8
15°	915.8	918.9	917.9	928.3	927.3
17.5°	896.9	903.2	902.2	911.6	909.5
20°	876.0	882.3	884.4	893.8	894.9
22.5°	854.0	860.3	863.5	876.0	875.0
25°	826.8	837.3	840.4	854.0	854.0
27.5°	800.7	812.2	818.4	830.0	831.0
30°	772.4	786.0	794.4	806.9	806.9
32.5°	741.0	756.7	768.2	781.8	785.0
35°	711.7	728.4	742.0	757.7	761.9
37.5°	680.3	699.1	714.8	732.6	735.8
40°	648.9	667.7	688.7	706.5	710.6
42.5°	614.4	638.4	660.4	680.3	686.6
45°	581.9	607.0	633.2	653.1	661.5
47.5°	547.4	575.6	604.9	626.9	633.2
50°	513.9	543.2	575.6	599.7	607.0
52.5°	478.3	509.7	546.3	571.4	580.9
55°	443.8	478.3	516.0	544.2	552.6
57.5°	410.3	445.9	486.7	514.9	524.4
60°	374.7	412.4	455.3	484.6	496.1
62.5°	341.2	379.9	426.0	455.3	465.7
65°	306.7	347.5	393.5	424.9	435.4
67.5°	272.1	315.0	361.1	395.6	404.0
70°	235.5	280.5	330.7	364.2	374.7
72.5°	202.0	247.0	299.3	333.9	344.3
75°	166.4	215.6	267.9	302.5	315.0
77.5°	136.1	185.2	237.6	274.2	283.6
80°	103.6	154.9	209.3	244.9	255.4
82.5°	75.4	127.7	183.2	218.7	229.2
85°	51.3	103.6	159.1	194.7	205.1
87.5°	31.4	83.7	137.1	172.7	183.2
90°	14.4	73.2	136.3	174.9	186.8
92.5°	35.1	84.6	141.4	178.2	186.2
95°	55.8	101.8	159.2	194.7	205.1
97.5°	83.3	124.7	178.4	213.5	223.3
100°	111.5	149.5	201.5	234.0	246.0
102.5°	144.3	175.8	228.2	259.7	269.4
105°	177.3	203.9	255.7	285.0	295.9
107.5°	215.2	238.0	283.9	314.5	323.1
110°	250.3	270.6	314.0	344.2	351.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.8	303.2	343.0	372.9	382.3
115°	324.3	339.1	375.3	401.2	408.8
117.5°	362.5	371.7	405.8	430.9	437.0
120°	396.8	406.5	437.4	460.6	466.5
122.5°	433.6	438.7	469.6	490.4	495.5
125°	470.0	472.3	501.2	520.2	524.5
127.5°	504.6	508.1	532.8	549.2	553.5
130°	539.1	544.1	562.8	579.7	580.7
132.5°	572.6	578.7	592.9	607.9	611.5
135°	607.9	611.3	622.2	638.0	641.7
137.5°	640.2	642.9	652.5	665.5	668.5
140°	672.9	676.6	680.6	695.5	695.5
142.5°	703.7	706.4	707.9	720.8	722.2
145°	736.0	736.5	738.7	746.4	747.6
147.5°	762.7	765.7	768.0	771.1	770.8
150°	792.0	793.5	795.0	795.0	792.6
152.5°	816.0	818.3	819.0	820.5	816.8
155°	841.6	841.6	842.3	845.3	840.1
157.5°	863.3	862.6	863.3	866.3	861.8
160°	883.6	882.1	882.1	885.8	882.8
162.5°	901.6	899.4	900.1	903.9	898.6
165°	916.6	914.4	914.4	918.9	913.6
167.5°	929.4	926.4	927.1	931.6	927.1
170°	939.9	936.9	936.9	942.2	936.9
172.5°	948.2	945.2	945.2	949.7	944.4
175°	953.4	950.4	950.4	954.9	949.7
177.5°	956.4	953.4	953.4	957.9	952.7
180°	955.7	955.7	955.7	955.7	955.7

(END OF REPORT)