

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: P1035343

Luminaire Tested: S125DIW-B375D470UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035343
REPORT IS A COMBINATION OF REPORTS P1003632 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D470UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

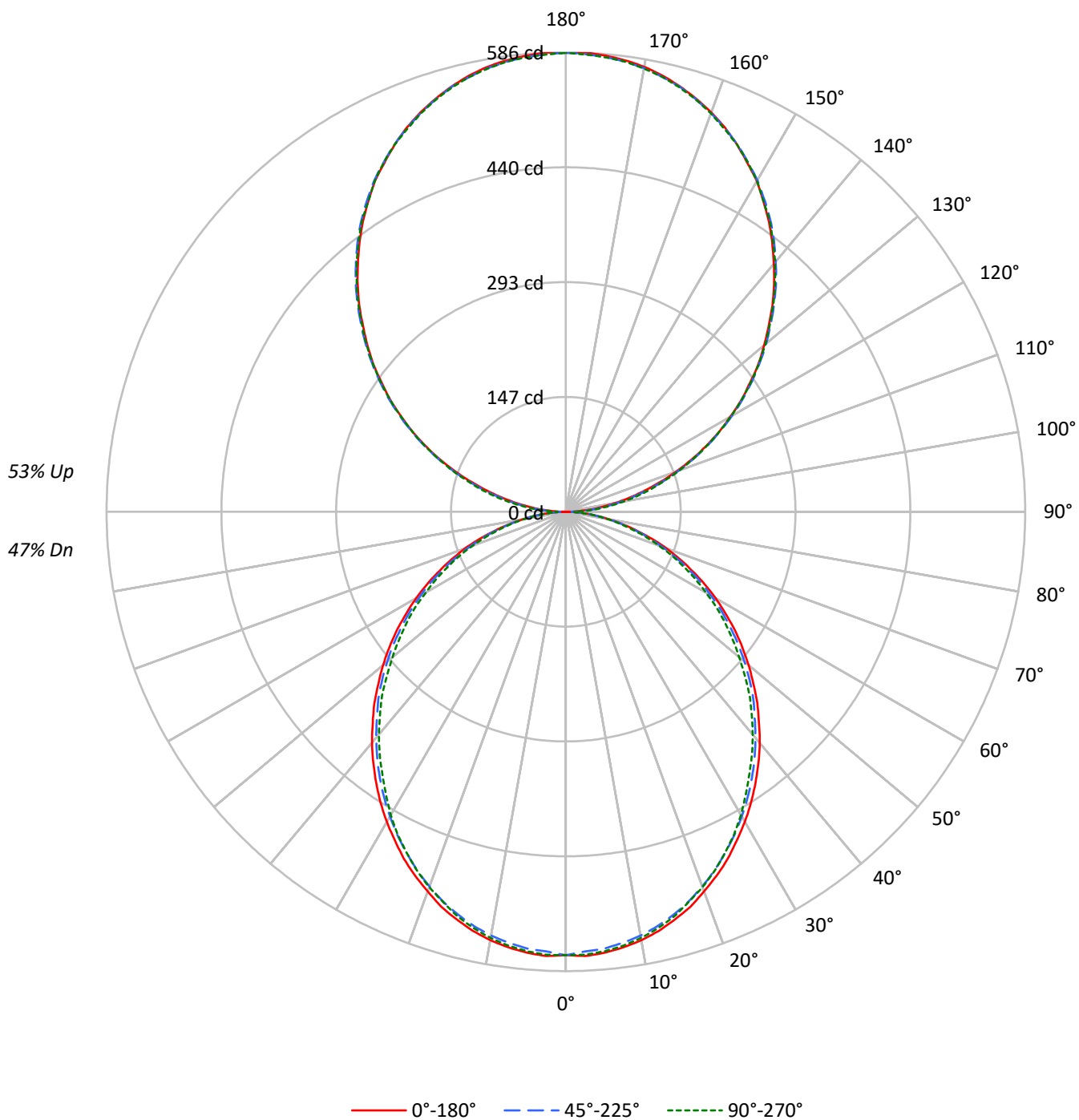
Lumens per Lamp: N/A
Luminaire Lumens: 3107.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 26.2
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

TEST NUMBER: P1035343

CATALOG NUMBER: S125DIW-B375D470UB40-4F0-XX-W2A-F1

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	93	89	85	89	85	82	79	72	69	67	59	57	56	47	46	45
2	88	81	75	70	81	75	69	65	63	59	55	52	49	47	42	40	38
3	81	71	64	58	74	66	59	54	55	51	47	46	42	39	37	34	32
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28
5	68	56	48	42	62	52	45	39	44	38	34	37	32	29	30	27	24
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19
8	53	41	33	28	49	38	31	26	33	27	23	27	23	20	23	19	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3624	3624	3624
5°	3624	3540	3546
10°	3594	3458	3447
15°	3547	3361	3331
20°	3482	3249	3198
25°	3414	3126	3055
30°	3331	2998	2904
35°	3243	2864	2736
40°	3152	2722	2586
45°	3053	2585	2426
50°	2945	2427	2241
55°	2838	2255	2070
60°	2709	2073	1872
65°	2555	1862	1666
70°	2400	1620	1429
75°	2137	1334	1155
80°	1823	996	849
85°	1407	590	468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3053 cd/sqm

TEST NUMBER: P1035343

CATALOG NUMBER: S125DIW-B375D470UB40-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.7
10°-20°	150.7	4.9
20°-30°	222.5	7.2
30°-40°	259.6	8.4
40°-50°	260.8	8.4
50°-60°	228.9	7.4
60°-70°	170.5	5.5
70°-80°	97.4	3.1
80°-90°	29.0	0.9
90°-100°	38.9	1.3
100°-110°	115.7	3.7
110°-120°	196.2	6.3
120°-130°	258.2	8.3
130°-140°	289.4	9.3
140°-150°	283.6	9.1
150°-160°	238.3	7.7
160°-170°	158.4	5.1
170°-180°	55.4	1.8
0°-30°	426.7	13.7
0°-40°	686.3	22.1
0°-60°	1176.0	37.8
0°-90°	1472.9	47.4
90°-120°	350.8	11.3
90°-150°	1182.0	38.0
90°-180°	1634.0	52.6
0°-180°	3107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	565	564	559	563	563	54
15°	538	537	532	534	534	152
25°	489	486	480	481	480	225
35°	422	420	414	412	408	264
45°	345	344	338	333	332	266
55°	263	262	256	252	248	235
65°	178	177	172	168	166	176
75°	94	94	91	90	88	100
85°	25	25	25	25	24	27
90°	0	4	7	10	11	4
95°	30	30	35	38	39	31
105°	104	106	109	112	113	111
115°	196	198	199	199	198	194
125°	287	289	290	289	288	257
135°	373	376	376	376	374	287
145°	452	453	455	455	453	282
155°	517	517	517	519	517	238
165°	562	561	561	563	560	159
175°	584	582	582	585	582	56
180°	586	586	586	586	586	

TEST NUMBER: P1035343

CATALOG NUMBER: S125DIW-B375D470UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	565.6	565.6	565.6	565.6	565.6
2.5°	567.3	566.0	561.5	566.0	565.6
5°	564.7	563.8	559.3	563.3	562.9
7.5°	560.6	559.7	554.8	558.8	558.4
10°	554.8	553.9	549.0	552.6	552.1
12.5°	547.7	545.9	541.4	544.1	544.1
15°	538.3	536.9	532.0	534.2	534.2
17.5°	528.4	526.2	521.3	523.9	521.7
20°	515.4	514.5	508.7	511.9	509.6
22.5°	502.5	500.7	495.3	497.1	495.8
25°	488.6	486.4	480.5	481.4	480.1
27.5°	472.5	471.1	465.3	465.8	464.4
30°	456.8	455.5	448.8	447.9	446.5
32.5°	439.8	437.6	431.8	430.0	427.3
35°	421.9	420.1	413.9	411.6	408.1
37.5°	403.6	401.3	395.5	392.4	390.2
40°	384.8	382.6	376.3	372.3	370.9
42.5°	364.7	362.9	356.6	353.0	350.8
45°	345.4	343.6	338.3	332.9	331.5
47.5°	324.4	324.8	318.1	312.8	309.6
50°	304.3	302.9	297.5	291.7	288.6
52.5°	283.7	282.8	277.0	272.0	268.5
55°	263.1	261.7	255.5	251.5	248.3
57.5°	241.2	240.7	235.3	230.0	228.6
60°	220.6	218.8	213.9	209.4	206.3
62.5°	199.1	197.8	193.7	188.8	186.6
65°	177.6	176.7	171.8	167.8	166.0
67.5°	156.6	154.8	151.2	147.7	146.8
70°	136.9	134.7	130.7	128.0	126.2
72.5°	115.4	114.1	111.9	108.7	106.9
75°	94.4	93.5	91.3	89.9	88.1
77.5°	74.7	74.3	72.9	72.0	70.7
80°	56.4	56.4	55.5	55.0	54.1
82.5°	40.3	39.4	39.4	38.5	38.5
85°	24.6	25.1	25.1	24.6	23.7
87.5°	12.1	12.1	11.6	11.6	10.7
90°	0.5	4.1	7.3	9.6	10.9
92.5°	13.7	15.9	20.0	23.2	24.1
95°	29.6	30.5	35.1	38.3	39.2
97.5°	45.6	46.0	52.4	55.1	55.6
100°	63.8	63.8	69.7	73.8	74.7
102.5°	83.4	85.7	87.9	92.5	93.9
105°	103.9	106.2	108.9	111.6	113.0
107.5°	126.2	128.5	130.8	132.1	132.1
110°	149.5	151.7	153.1	154.5	154.0

TEST NUMBER: P1035343

CATALOG NUMBER: S125DIW-B375D470UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.1	174.1	175.9	176.3	175.4
115°	196.4	198.2	199.1	198.7	198.2
117.5°	220.1	220.5	221.4	221.9	220.1
120°	241.9	244.2	244.7	244.7	242.9
122.5°	265.6	266.1	267.5	267.0	265.6
125°	286.6	289.3	289.8	288.9	288.4
127.5°	309.8	311.2	311.7	311.2	310.3
130°	330.3	332.6	333.5	333.1	332.2
132.5°	350.8	354.9	354.5	354.0	352.7
135°	372.7	375.5	375.9	375.9	374.1
137.5°	393.2	396.0	396.9	397.3	395.0
140°	412.8	415.1	416.5	417.4	415.1
142.5°	432.4	434.2	436.1	436.5	434.2
145°	451.5	453.4	454.7	454.7	453.4
147.5°	469.3	470.7	471.6	473.0	469.3
150°	487.1	486.6	488.4	488.4	487.5
152.5°	501.7	502.6	503.0	504.4	502.6
155°	516.7	516.7	517.2	519.0	516.7
157.5°	530.4	529.5	529.9	531.7	528.5
160°	542.2	540.8	541.3	543.1	540.8
162.5°	552.7	551.8	551.8	554.1	551.3
165°	561.8	560.9	561.4	563.2	560.4
167.5°	570.0	568.2	568.2	570.9	568.2
170°	576.4	574.6	574.6	577.3	574.1
172.5°	580.9	579.1	579.1	581.9	579.1
175°	584.1	582.3	582.3	585.0	581.9
177.5°	586.4	584.6	584.1	586.9	583.7
180°	585.5	585.5	585.5	585.5	585.5

(END OF REPORT)