

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: P1035901

Luminaire Tested: S125RDIW-B375D1340UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035901
REPORT IS A COMBINATION OF REPORTS P1006433 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D1340UB35-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

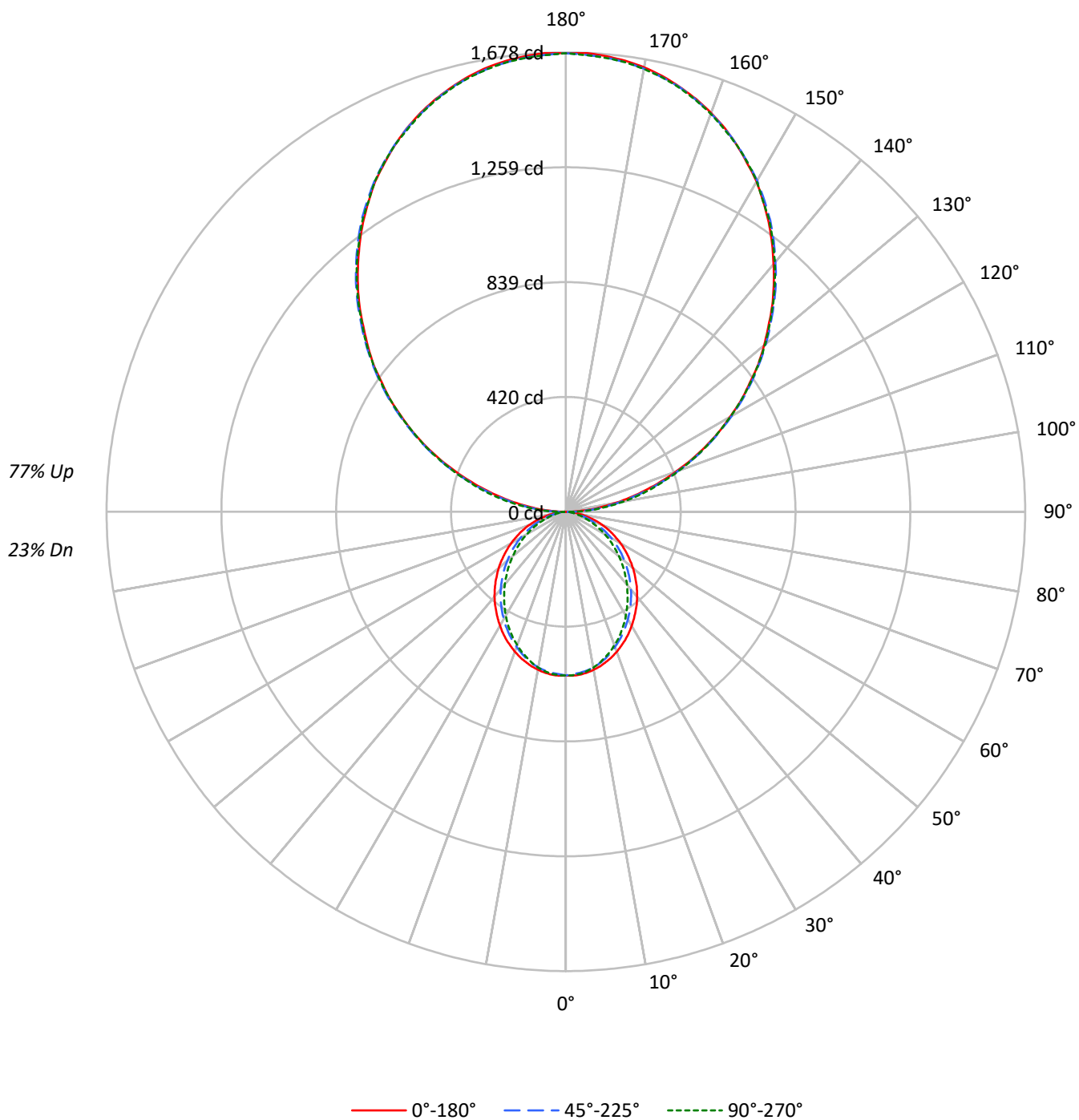
Lumens per Lamp: N/A
Luminaire Lumens: 6090.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
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

TEST NUMBER: P1035901

CATALOG NUMBER: S125RDIW-B375D1340UB35-4F0-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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	101	101	101	101	90	90	90	90	68	68	68	49	49	49	32	32	32	23		
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20		
2	84	77	71	66	74	68	63	59	53	49	47	38	36	34	25	24	23	17		
3	76	67	61	55	68	60	54	50	46	42	39	34	31	29	22	21	19	14		
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	12		
5	64	53	45	40	57	47	41	36	37	32	29	27	24	22	18	16	15	11		
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	9		
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	8		
8	50	38	31	26	45	35	28	24	27	22	19	20	17	15	13	12	10	8		
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	11	9	7		
10	43	32	25	21	39	29	23	19	23	18	15	17	14	12	11	10	8	6		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3832	3832	3832
5°	3833	3736	3742
10°	3795	3642	3610
15°	3741	3510	3436
20°	3675	3352	3254
25°	3598	3197	3058
30°	3505	3027	2853
35°	3410	2854	2635
40°	3319	2676	2422
45°	3211	2484	2198
50°	3100	2281	1971
55°	2971	2081	1736
60°	2841	1852	1492
65°	2685	1596	1228
70°	2501	1299	967
75°	2251	977	705
80°	1897	632	476
85°	1418	341	269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3211 cd/sqm

TEST NUMBER: P1035901

CATALOG NUMBER: S125RDIW-B375D1340UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	0.9
10°-20°	157.3	2.6
20°-30°	228.1	3.7
30°-40°	259.9	4.3
40°-50°	253.3	4.2
50°-60°	213.2	3.5
60°-70°	149.4	2.5
70°-80°	76.6	1.3
80°-90°	21.7	0.4
90°-100°	111.4	1.8
100°-110°	330.9	5.4
110°-120°	561.1	9.2
120°-130°	738.7	12.1
130°-140°	827.8	13.6
140°-150°	811.4	13.3
150°-160°	681.5	11.2
160°-170°	453.0	7.4
170°-180°	158.5	2.6
0°-30°	441.7	7.3
0°-40°	701.5	11.5
0°-60°	1168.0	19.2
0°-90°	1415.6	23.2
90°-120°	1003.4	16.5
90°-150°	3381.3	55.5
90°-180°	4674.0	76.7
0°-180°	6090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	597	595	590	595	594	57
15°	568	565	556	555	551	160
25°	515	508	492	486	481	237
35°	444	433	412	399	393	278
45°	363	350	325	307	300	280
55°	276	261	236	216	208	246
65°	187	171	147	129	122	185
75°	99	86	67	57	54	105
85°	25	17	14	14	14	27
90°	1	12	21	27	31	7
95°	85	87	100	110	112	89
105°	297	304	312	319	323	317
115°	562	567	570	568	567	556
125°	820	828	829	826	825	735
135°	1066	1074	1075	1075	1070	822
145°	1292	1297	1301	1301	1297	808
155°	1478	1478	1479	1485	1478	681
165°	1607	1604	1606	1611	1603	453
175°	1671	1666	1666	1674	1664	159
180°	1675	1675	1675	1675	1675	

TEST NUMBER: P1035901

CATALOG NUMBER: S125RDIW-B375D1340UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	598.1	598.1	598.1	598.1	598.1
2.5°	599.4	598.1	593.5	598.1	597.6
5°	597.2	595.3	590.4	594.9	594.0
7.5°	592.6	590.8	585.0	588.6	587.7
10°	585.9	584.5	578.2	579.5	578.2
12.5°	578.2	576.4	567.3	568.2	566.0
15°	567.8	565.1	555.6	555.1	551.1
17.5°	557.0	552.9	541.6	539.3	536.2
20°	543.9	539.3	524.9	522.6	518.6
22.5°	529.4	524.9	509.5	504.6	501.4
25°	514.9	508.2	491.5	485.6	480.6
27.5°	498.7	490.6	472.9	465.3	460.3
30°	480.6	472.0	453.1	442.7	438.6
32.5°	463.0	452.6	433.2	421.4	416.0
35°	443.6	432.7	412.4	399.3	393.0
37.5°	425.1	412.0	391.2	375.8	369.5
40°	405.2	391.6	369.9	352.8	347.4
42.5°	384.4	370.4	347.8	331.6	323.0
45°	363.2	350.1	325.2	307.2	300.4
47.5°	341.0	327.5	302.6	284.1	276.4
50°	320.3	305.4	279.6	260.6	253.9
52.5°	297.7	282.3	258.4	237.6	230.8
55°	275.5	261.1	235.8	215.5	208.2
57.5°	253.0	237.6	213.2	193.3	187.0
60°	231.3	215.5	191.1	171.2	164.4
62.5°	208.2	193.3	168.5	150.4	143.6
65°	186.6	171.2	147.3	129.2	122.4
67.5°	164.9	149.5	126.5	109.3	103.9
70°	142.7	127.4	104.8	90.8	85.4
72.5°	121.1	106.2	85.4	72.7	69.6
75°	99.4	85.8	66.9	56.9	53.8
77.5°	77.2	66.4	50.6	42.9	40.2
80°	58.7	47.9	35.2	31.2	30.3
82.5°	40.7	31.2	23.5	22.1	21.7
85°	24.8	16.7	14.5	14.0	13.6
87.5°	10.4	7.2	6.8	6.8	6.3
90°	1.3	11.7	20.9	27.4	31.3
92.5°	39.1	45.6	57.3	66.5	69.1
95°	84.7	87.3	100.4	109.5	112.1
97.5°	130.3	131.6	149.9	157.7	159.0
100°	182.5	182.5	199.4	211.1	213.8
102.5°	238.5	245.0	251.6	264.6	268.5
105°	297.2	303.7	311.5	319.3	323.2
107.5°	361.0	367.6	374.1	378.0	378.0
110°	427.5	434.0	437.9	441.8	440.5

TEST NUMBER: P1035901

CATALOG NUMBER: S125RDIW-B375D1340UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	495.3	497.9	503.1	504.4	501.8
115°	561.8	567.0	569.6	568.3	567.0
117.5°	629.5	630.8	633.4	634.8	629.5
120°	692.1	698.6	699.9	699.9	694.7
122.5°	759.9	761.2	765.1	763.8	759.9
125°	819.8	827.7	829.0	826.4	825.0
127.5°	886.3	890.2	891.5	890.2	887.6
130°	945.0	951.5	954.1	952.8	950.2
132.5°	1003.6	1015.3	1014.0	1012.7	1008.8
135°	1066.2	1074.0	1075.3	1075.3	1070.1
137.5°	1124.8	1132.6	1135.3	1136.6	1130.0
140°	1180.9	1187.4	1191.3	1193.9	1187.4
142.5°	1236.9	1242.1	1247.3	1248.6	1242.1
145°	1291.7	1296.9	1300.8	1300.8	1296.9
147.5°	1342.5	1346.4	1349.0	1352.9	1342.5
150°	1393.3	1392.0	1397.2	1397.2	1394.6
152.5°	1435.0	1437.6	1438.9	1442.9	1437.6
155°	1478.0	1478.0	1479.3	1484.6	1478.0
157.5°	1517.1	1514.5	1515.8	1521.1	1511.9
160°	1551.0	1547.1	1548.4	1553.6	1547.1
162.5°	1581.0	1578.4	1578.4	1584.9	1577.1
165°	1607.1	1604.5	1605.8	1611.0	1603.2
167.5°	1630.5	1625.3	1625.3	1633.1	1625.3
170°	1648.8	1643.6	1643.6	1651.4	1642.3
172.5°	1661.8	1656.6	1656.6	1664.4	1656.6
175°	1670.9	1665.7	1665.7	1673.6	1664.4
177.5°	1677.5	1672.3	1670.9	1678.8	1669.6
180°	1674.9	1674.9	1674.9	1674.9	1674.9

(END OF REPORT)