

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: P1035840

Luminaire Tested: S125RDIW-B1270D470UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035840
REPORT IS A COMBINATION OF REPORTS P1006300 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1270D470UB35-4F0-XX-W2A-F
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

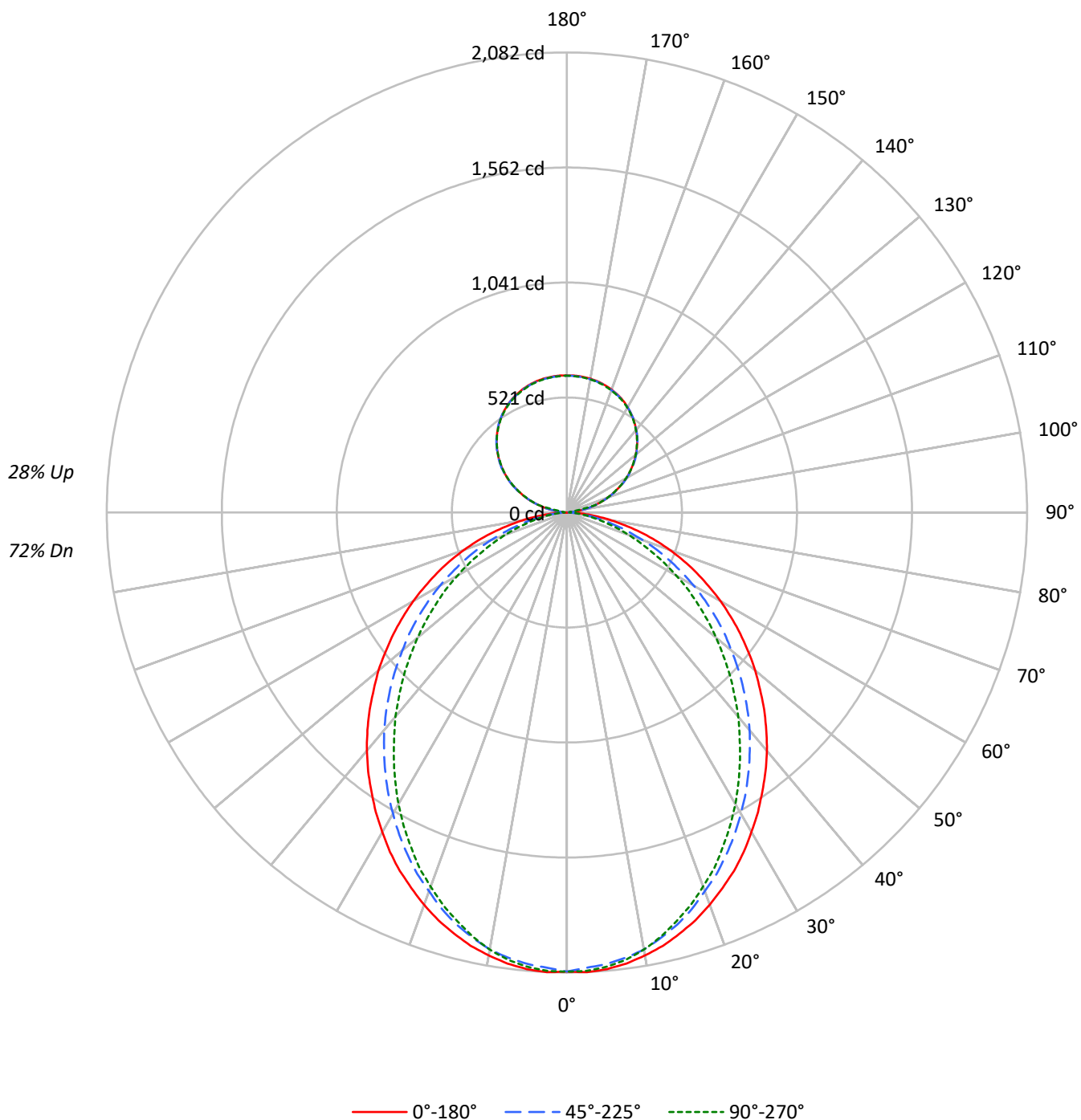
Lumens per Lamp: N/A
Luminaire Lumens: 6813.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
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: P1035840

CATALOG NUMBER: S125RDIW-B1270D470UB35-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1035840

CATALOG NUMBER: S125RDIW-B1270D470UB35-4F0-XX-W2A-F

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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76
1	103	99	95	91	98	94	90	87	84	82	79	76	74	72	68	67	65
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55
3	86	76	69	63	81	73	66	61	66	61	56	60	55	52	54	50	48
4	79	68	60	54	75	65	57	52	59	53	48	53	49	45	48	44	41
5	73	61	52	46	69	58	50	45	53	47	42	48	43	39	44	39	36
6	67	55	46	41	63	52	45	39	48	41	37	44	38	34	40	35	32
7	62	50	42	36	59	48	40	35	44	37	33	40	34	31	36	32	28
8	58	45	37	32	55	43	36	31	40	34	29	37	31	27	33	29	26
9	54	42	34	29	51	40	33	28	37	31	26	34	29	25	31	26	23
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13313	13313	13313
5°	13314	12981	13001
10°	13184	12653	12542
15°	12997	12195	11938
20°	12766	11645	11304
25°	12501	11107	10624
30°	12177	10515	9911
35°	11847	9915	9153
40°	11532	9299	8413
45°	11153	8632	7638
50°	10769	7925	6848
55°	10325	7230	6030
60°	9869	6433	5182
65°	9326	5544	4268
70°	8693	4514	3359
75°	7816	3394	2447
80°	6592	2198	1650
85°	4934	1180	930

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11153 cd/sqm

TEST NUMBER: P1035840

CATALOG NUMBER: S125RDIW-B1270D470UB35-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	2.9
10°-20°	546.5	8.0
20°-30°	792.4	11.6
30°-40°	902.8	13.3
40°-50°	879.9	12.9
50°-60°	740.5	10.9
60°-70°	518.9	7.6
70°-80°	266.0	3.9
80°-90°	67.3	1.0
90°-100°	21.0	0.3
100°-110°	139.8	2.1
110°-120°	251.8	3.7
120°-130°	323.2	4.7
130°-140°	347.6	5.1
140°-150°	326.2	4.8
150°-160°	263.9	3.9
160°-170°	170.7	2.5
170°-180°	58.9	0.9
0°-30°	1534.4	22.5
0°-40°	2437.2	35.8
0°-60°	4057.7	59.6
0°-90°	4909.9	72.1
90°-120°	412.6	6.1
90°-150°	1409.7	20.7
90°-180°	1903.0	27.9
0°-180°	6813.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2078	2078	2078	2078	2078	
5°	2075	2068	2051	2067	2064	197
15°	1973	1963	1930	1929	1914	556
25°	1789	1766	1707	1687	1670	823
35°	1541	1503	1433	1387	1365	965
45°	1262	1216	1130	1067	1044	973
55°	957	907	819	749	723	856
65°	648	595	512	449	425	642
75°	345	298	232	198	187	365
85°	86	58	50	49	47	95
90°	0	4	7	10	11	6
95°	26	25	7	10	10	32
105°	135	137	137	137	136	143
115°	254	256	256	254	252	251
125°	360	364	364	362	360	322
135°	450	452	451	450	448	347
145°	521	522	522	523	520	326
155°	574	571	572	574	570	265
165°	606	603	604	606	602	171
175°	620	617	617	621	617	59
180°	620	620	620	620	620	

TEST NUMBER: P1035840

CATALOG NUMBER: S125RDIW-B1270D470UB35-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2077.8	2077.8	2077.8	2077.8	2077.8
2.5°	2082.5	2077.8	2062.1	2077.8	2076.2
5°	2074.6	2068.3	2051.1	2066.8	2063.6
7.5°	2058.9	2052.6	2032.2	2044.8	2041.7
10°	2035.4	2030.7	2008.7	2013.4	2008.7
12.5°	2008.7	2002.4	1971.0	1974.2	1966.3
15°	1972.6	1963.2	1930.2	1928.7	1914.5
17.5°	1935.0	1920.8	1881.6	1873.7	1862.8
20°	1889.4	1873.7	1823.5	1815.7	1801.6
22.5°	1839.2	1823.5	1770.2	1752.9	1741.9
25°	1789.0	1765.5	1707.4	1687.0	1669.7
27.5°	1732.5	1704.3	1643.1	1616.4	1599.1
30°	1669.7	1639.9	1574.0	1537.9	1523.8
32.5°	1608.5	1572.4	1505.0	1464.2	1445.3
35°	1541.1	1503.4	1432.8	1387.3	1365.3
37.5°	1476.7	1431.2	1359.0	1305.7	1283.7
40°	1407.7	1360.6	1285.3	1225.6	1206.8
42.5°	1335.5	1286.8	1208.4	1151.9	1122.1
45°	1261.7	1216.2	1129.9	1067.1	1043.6
47.5°	1184.8	1137.7	1051.4	987.1	960.4
50°	1112.6	1060.8	971.4	905.5	881.9
52.5°	1034.2	980.8	897.6	825.5	801.9
55°	957.3	907.1	819.2	748.6	723.4
57.5°	878.8	825.5	740.7	671.7	649.7
60°	803.5	748.6	663.8	594.8	571.2
62.5°	723.4	671.7	585.3	522.6	499.0
65°	648.1	594.8	511.6	448.8	425.3
67.5°	572.8	519.4	439.4	379.8	360.9
70°	495.9	442.5	364.1	315.4	296.6
72.5°	420.6	368.8	296.6	252.7	241.7
75°	345.2	298.2	232.3	197.7	186.7
77.5°	268.4	230.7	175.8	149.1	139.7
80°	204.0	166.3	122.4	108.3	105.1
82.5°	141.2	108.3	81.6	76.9	75.3
85°	86.3	58.1	50.2	48.6	47.1
87.5°	36.1	25.1	23.5	23.5	22.0
90°	0.5	4.1	7.3	9.6	11.0
92.5°	8.7	4.6	7.3	9.6	10.1
95°	26.2	24.8	7.3	9.6	9.6
97.5°	49.1	51.9	8.3	9.2	9.6
100°	76.7	78.1	79.9	11.5	9.6
102.5°	104.7	106.5	107.5	108.4	69.8
105°	135.0	136.9	136.9	136.9	136.4
107.5°	166.3	166.3	167.2	167.6	165.8
110°	196.6	196.6	197.5	196.1	196.6

TEST NUMBER: P1035840

CATALOG NUMBER: S125RDIW-B1270D470UB35-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.0	226.4	226.9	225.0	224.1
115°	253.5	255.8	256.3	254.4	251.7
117.5°	283.4	283.4	285.2	282.4	281.5
120°	310.9	310.5	311.8	310.9	308.6
122.5°	335.3	337.6	338.0	337.1	334.3
125°	360.5	363.7	363.7	361.9	360.5
127.5°	384.9	387.2	386.7	385.8	382.1
130°	406.9	409.2	409.7	408.3	406.0
132.5°	428.9	431.7	430.3	430.3	428.0
135°	449.6	452.4	451.4	450.5	447.8
137.5°	468.9	471.7	470.7	470.7	468.4
140°	487.7	488.6	488.2	489.1	486.4
142.5°	504.7	505.2	506.1	506.1	503.3
145°	521.3	522.2	522.2	522.6	519.9
147.5°	536.0	536.0	536.4	536.9	533.7
150°	549.7	548.8	549.7	550.6	547.0
152.5°	563.0	560.8	561.7	562.6	559.4
155°	574.1	571.3	572.2	573.6	569.9
157.5°	582.8	581.4	581.4	582.8	579.1
160°	592.0	589.2	589.7	591.5	587.8
162.5°	599.3	596.6	597.0	599.8	595.7
165°	605.8	603.0	603.5	606.2	602.5
167.5°	610.8	608.1	608.5	611.7	607.6
170°	614.9	611.7	612.2	615.9	611.7
172.5°	617.7	614.5	615.4	618.6	614.5
175°	619.5	616.8	617.2	620.9	616.8
177.5°	620.9	618.2	618.6	621.8	618.2
180°	619.5	619.5	619.5	619.5	619.5

(END OF REPORT)