

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: P1035841

Luminaire Tested: S125RDIW-B1270D470UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035841
REPORT IS A COMBINATION OF REPORTS P1006301 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1270D470UB35-4F0-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: -

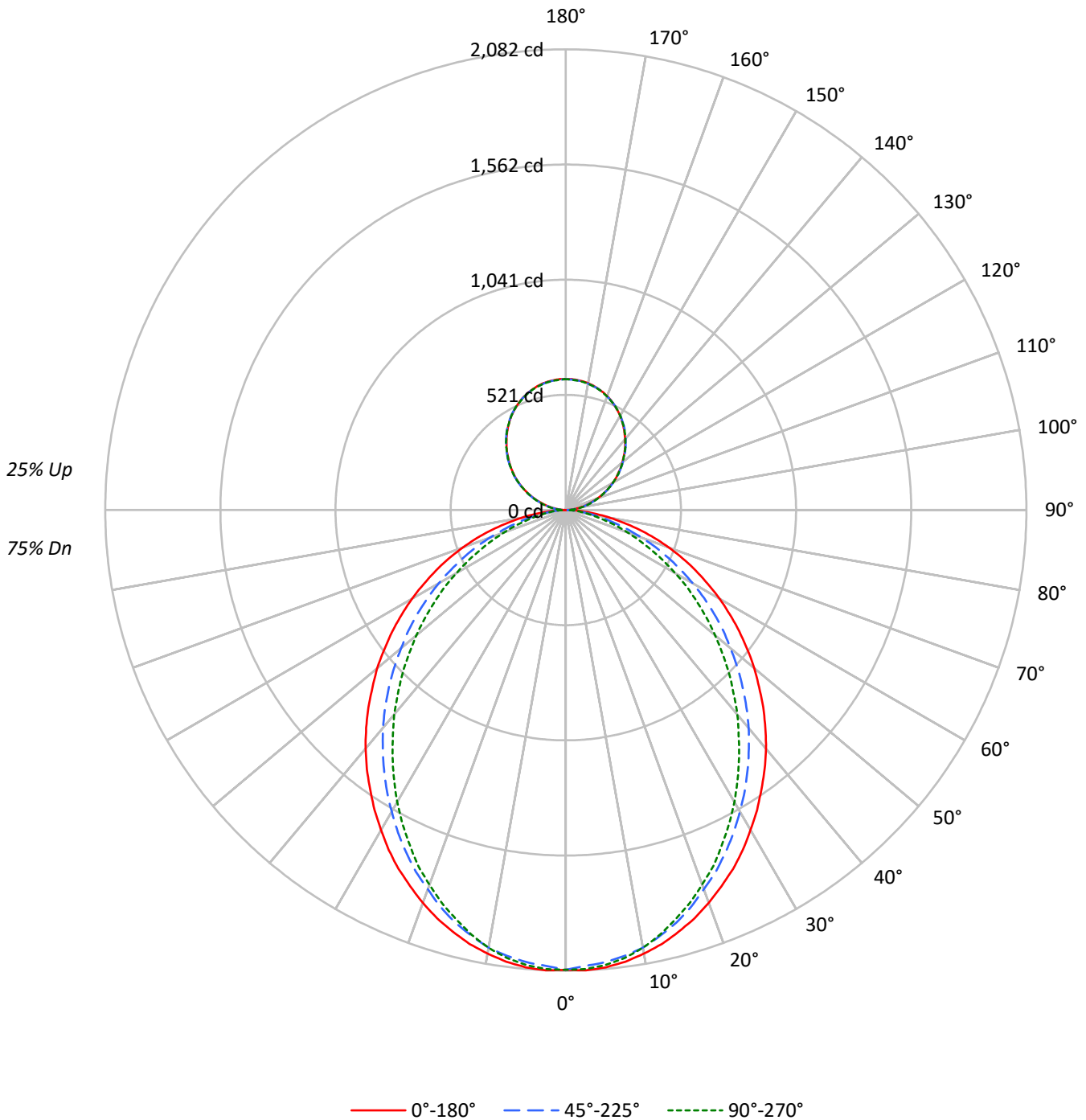
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6560.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

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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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	79	79	79	75
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	67	67	67	64
2	95	87	81	76	90	83	78	73	76	71	67	69	65	62	62	60	57	57	57	57	54
3	87	77	69	63	82	74	67	61	67	62	57	61	57	53	56	52	49	49	49	49	46
4	79	68	60	54	75	65	58	52	60	54	49	55	50	46	50	46	43	43	43	43	40
5	73	61	53	47	69	59	51	45	54	47	43	49	44	40	45	41	37	37	37	37	35
6	68	55	47	41	64	53	45	40	49	42	37	45	39	35	41	37	33	33	33	33	31
7	63	50	42	36	60	48	41	35	44	38	33	41	35	31	38	33	29	29	29	29	27
8	58	46	38	32	55	44	37	31	41	34	30	37	32	28	35	30	27	27	27	27	24
9	55	42	34	29	52	40	33	28	37	31	27	35	29	25	32	27	24	24	24	24	22
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	22	22	22	20

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	3.0
10°-20°	546.5	8.3
20°-30°	792.4	12.1
30°-40°	902.8	13.8
40°-50°	879.9	13.4
50°-60°	740.5	11.3
60°-70°	518.9	7.9
70°-80°	266.0	4.1
80°-90°	67.3	1.0
90°-100°	39.3	0.6
100°-110°	116.8	1.8
110°-120°	198.1	3.0
120°-130°	260.8	4.0
130°-140°	292.2	4.5
140°-150°	286.4	4.4
150°-160°	240.6	3.7
160°-170°	159.9	2.4
170°-180°	56.0	0.9
0°-30°	1534.4	23.4
0°-40°	2437.2	37.2
0°-60°	4057.7	61.9
0°-90°	4909.9	74.8
90°-120°	354.2	5.4
90°-150°	1193.6	18.2
90°-180°	1650.0	25.2
0°-180°	6560.0	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	7
95°	30	31	35	39	40	31
105°	105	107	110	113	114	112
115°	198	200	201	201	200	196
125°	289	292	293	292	291	259
135°	376	379	380	380	378	290
145°	456	458	459	459	458	285
155°	522	522	522	524	522	240
165°	567	566	567	569	566	160
175°	590	588	588	591	588	56
180°	591	591	591	591	591	



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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	7.4	9.7	11.0
92.5°	13.8	16.1	20.2	23.5	24.4
95°	29.9	30.8	35.4	38.6	39.6
97.5°	46.0	46.5	52.9	55.7	56.1
100°	64.4	64.4	70.4	74.5	75.5
102.5°	84.2	86.5	88.8	93.4	94.8
105°	104.9	107.2	110.0	112.7	114.1
107.5°	127.4	129.7	132.0	133.4	133.4
110°	150.9	153.2	154.6	156.0	155.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.8	175.8	177.6	178.1	177.1
115°	198.3	200.1	201.1	200.6	200.1
117.5°	222.2	222.7	223.6	224.1	222.2
120°	244.3	246.6	247.1	247.1	245.2
122.5°	268.2	268.7	270.1	269.6	268.2
125°	289.4	292.2	292.6	291.7	291.2
127.5°	312.9	314.2	314.7	314.2	313.3
130°	333.6	335.9	336.8	336.3	335.4
132.5°	354.3	358.4	358.0	357.5	356.1
135°	376.4	379.1	379.6	379.6	377.7
137.5°	397.1	399.8	400.7	401.2	398.9
140°	416.9	419.2	420.5	421.5	419.2
142.5°	436.6	438.5	440.3	440.8	438.5
145°	456.0	457.8	459.2	459.2	457.8
147.5°	473.9	475.3	476.2	477.6	473.9
150°	491.8	491.4	493.2	493.2	492.3
152.5°	506.6	507.5	508.0	509.3	507.5
155°	521.8	521.8	522.2	524.1	521.8
157.5°	535.6	534.6	535.1	536.9	533.7
160°	547.5	546.1	546.6	548.4	546.1
162.5°	558.1	557.2	557.2	559.5	556.7
165°	567.3	566.4	566.8	568.7	565.9
167.5°	575.6	573.7	573.7	576.5	573.7
170°	582.0	580.2	580.2	582.9	579.7
172.5°	586.6	584.8	584.8	587.6	584.8
175°	589.9	588.0	588.0	590.8	587.6
177.5°	592.2	590.3	589.9	592.6	589.4
180°	591.2	591.2	591.2	591.2	591.2

(END OF REPORT)