

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: P1035860

Luminaire Tested: S125RDIW-B1270D770UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035860
REPORT IS A COMBINATION OF REPORTS P1006344 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1270D770UB35-4F0-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: -

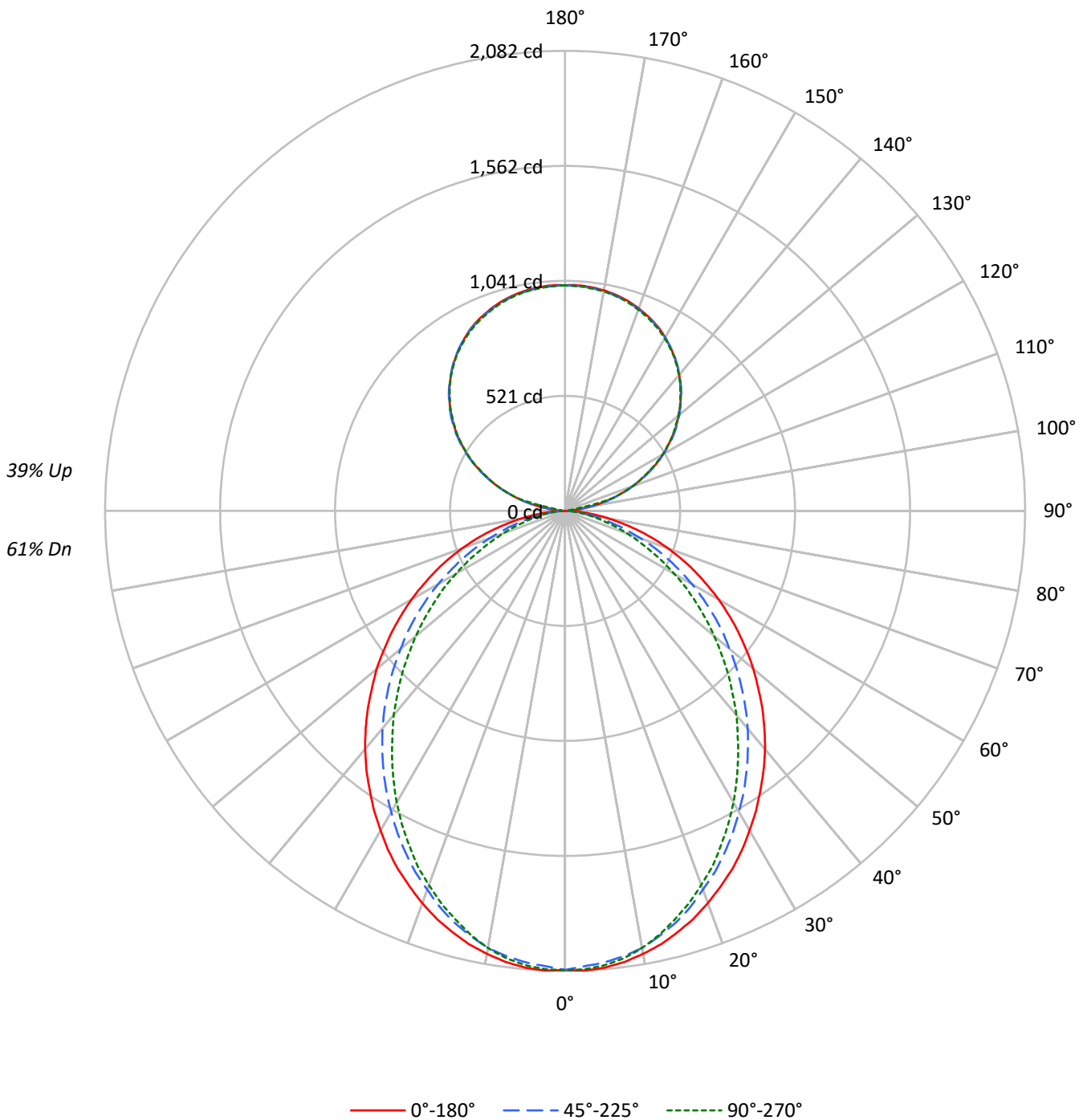
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8047.0 lumens
Efficiency: N/A
Efficacy: 95.2 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): 84.5
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66	61
1	101	96	92	89	94	90	87	84	79	76	74	69	67	65	59	58	57	57	57	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	48	48	48	44
3	84	74	67	61	78	70	63	58	62	56	52	54	50	47	47	44	41	41	41	41	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36	36	36	36	32
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	31	31	31	28
6	65	53	45	39	61	50	43	37	44	39	34	39	34	31	34	31	28	28	28	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	25	25	25	22
8	56	44	36	31	53	41	34	29	37	31	27	33	28	25	29	25	22	22	22	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	26	22	27	23	20	20	20	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	18	18	18	16

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	2.4
10°-20°	546.5	6.8
20°-30°	792.4	9.8
30°-40°	902.8	11.2
40°-50°	879.9	10.9
50°-60°	740.5	9.2
60°-70°	518.9	6.4
70°-80°	266.0	3.3
80°-90°	67.9	0.8
90°-100°	34.7	0.4
100°-110°	230.4	2.9
110°-120°	415.0	5.2
120°-130°	532.7	6.6
130°-140°	572.9	7.1
140°-150°	537.7	6.7
150°-160°	434.9	5.4
160°-170°	281.3	3.5
170°-180°	97.0	1.2
0°-30°	1534.4	19.1
0°-40°	2437.2	30.3
0°-60°	4057.7	50.4
0°-90°	4910.5	61.0
90°-120°	680.1	8.5
90°-150°	2323.3	28.9
90°-180°	3136.0	39.0
0°-180°	8047.0	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°	1	7	12	16	18	7
95°	43	41	12	16	16	53
105°	222	226	226	226	225	236
115°	418	422	422	419	415	414
125°	594	600	600	596	594	531
135°	741	746	744	742	738	571
145°	859	861	861	861	857	537
155°	946	942	943	945	939	436
165°	998	994	995	999	993	282
175°	1021	1016	1017	1023	1016	97
180°	1021	1021	1021	1021	1021	



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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°	0.8	6.8	12.1	15.9	18.2
92.5°	14.4	7.6	12.1	15.9	16.7
95°	43.1	40.9	12.1	15.9	15.9
97.5°	81.0	85.5	13.6	15.1	15.9
100°	126.4	128.7	131.7	18.9	15.9
102.5°	172.6	175.6	177.1	178.6	115.0
105°	222.5	225.6	225.6	225.6	224.8
107.5°	274.0	274.0	275.5	276.3	273.2
110°	324.0	324.0	325.5	323.2	324.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	370.9	373.2	373.9	370.9	369.4
115°	417.8	421.6	422.4	419.3	414.8
117.5°	467.0	467.0	470.0	465.5	464.0
120°	512.4	511.7	513.9	512.4	508.6
122.5°	552.5	556.3	557.1	555.6	551.0
125°	594.2	599.5	599.5	596.4	594.2
127.5°	634.3	638.1	637.3	635.8	629.7
130°	670.6	674.4	675.2	672.9	669.1
132.5°	706.9	711.5	709.2	709.2	705.4
135°	741.0	745.5	744.0	742.5	738.0
137.5°	772.8	777.3	775.8	775.8	772.0
140°	803.8	805.3	804.6	806.1	801.6
142.5°	831.8	832.6	834.1	834.1	829.6
145°	859.1	860.6	860.6	861.4	856.8
147.5°	883.3	883.3	884.1	884.8	879.5
150°	906.0	904.5	906.0	907.5	901.5
152.5°	928.0	924.2	925.7	927.2	921.9
155°	946.1	941.6	943.1	945.4	939.3
157.5°	960.5	958.2	958.2	960.5	954.5
160°	975.6	971.1	971.9	974.9	968.8
162.5°	987.8	983.2	984.0	988.5	981.7
165°	998.4	993.8	994.6	999.1	993.1
167.5°	1006.7	1002.1	1002.9	1008.2	1001.4
170°	1013.5	1008.2	1009.0	1015.0	1008.2
172.5°	1018.0	1012.7	1014.2	1019.5	1012.7
175°	1021.1	1016.5	1017.3	1023.3	1016.5
177.5°	1023.3	1018.8	1019.5	1024.8	1018.8
180°	1021.1	1021.1	1021.1	1021.1	1021.1

(END OF REPORT)