

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: P1035213

Luminaire Tested: S125DIW-B1270D770UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035213
REPORT IS A COMBINATION OF REPORTS P1003349 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D770UB30-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

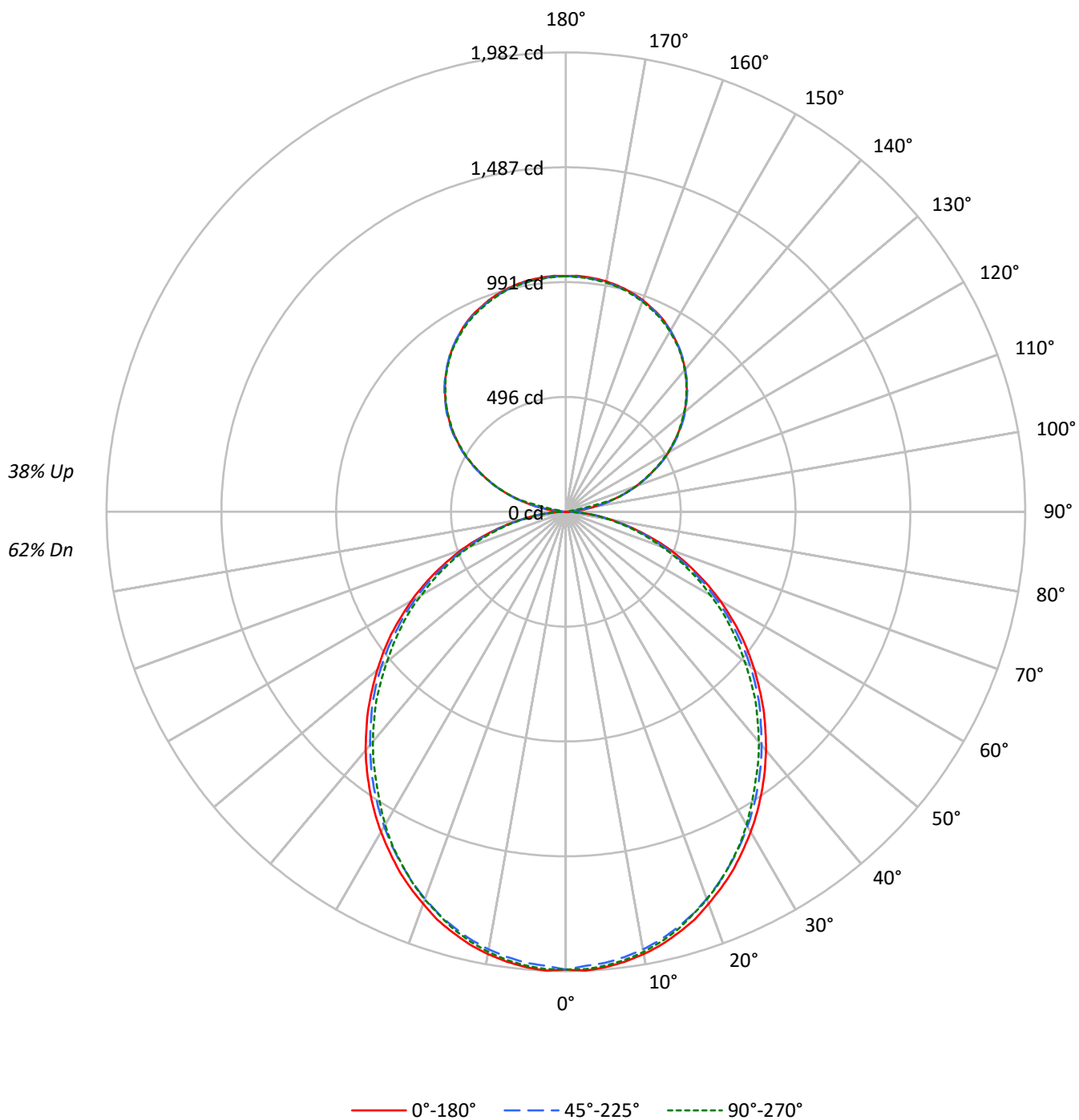
Lumens per Lamp: N/A
Luminaire Lumens: 8266.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	110	110	110	110		103	103	103	103		90	90	90		78	78	78		67	67	67
1	100	96	92	88		94	90	87	83		79	76	74		69	67	65		59	58	57
2	91	84	78	72		85	79	73	68		69	65	61		60	57	54		52	50	48
3	83	74	66	60		78	69	63	57		61	56	51		53	49	46		46	43	41
4	76	65	57	51		71	61	54	49		54	48	44		48	43	39		41	38	35
5	70	58	50	44		65	55	47	42		49	43	38		43	38	34		37	34	30
6	65	52	44	38		60	49	42	36		44	38	33		39	34	30		34	30	27
7	60	47	39	33		56	45	37	32		40	34	29		35	30	27		31	27	24
8	56	43	35	30		52	41	33	28		36	30	26		32	27	24		28	24	21
9	52	39	32	26		49	37	30	25		33	27	23		30	25	21		26	22	19
10	48	36	29	24		45	34	27	23		31	25	21		27	23	19		24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12655	12655	12655
5°	12656	12362	12385
10°	12551	12078	12040
15°	12387	11739	11634
20°	12164	11346	11168
25°	11924	10918	10669
30°	11636	10471	10143
35°	11328	10003	9554
40°	11009	9508	9031
45°	10665	9026	8474
50°	10285	8479	7826
55°	9911	7875	7230
60°	9462	7239	6536
65°	8927	6503	5819
70°	8382	5657	4991
75°	7465	4658	4035
80°	6363	3480	2969
85°	4911	2057	1636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10665 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	2.3
10°-20°	526.5	6.4
20°-30°	777.2	9.4
30°-40°	906.8	11.0
40°-50°	910.8	11.0
50°-60°	799.5	9.7
60°-70°	595.5	7.2
70°-80°	340.1	4.1
80°-90°	99.7	1.2
90°-100°	34.5	0.4
100°-110°	229.5	2.8
110°-120°	413.3	5.0
120°-130°	530.4	6.4
130°-140°	570.5	6.9
140°-150°	535.5	6.5
150°-160°	433.1	5.2
160°-170°	280.1	3.4
170°-180°	96.6	1.2
0°-30°	1490.1	18.0
0°-40°	2396.9	29.0
0°-60°	4107.2	49.7
0°-90°	5142.5	62.2
90°-120°	677.3	8.2
90°-150°	2313.7	28.0
90°-180°	3124.0	37.8
0°-180°	8266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1972	1969	1953	1967	1966	187
15°	1880	1875	1858	1866	1866	530
25°	1706	1699	1678	1681	1677	785
35°	1474	1467	1446	1438	1425	922
45°	1206	1200	1181	1163	1158	929
55°	919	914	892	878	867	820
65°	620	617	600	586	580	615
75°	330	327	319	314	308	351
85°	86	88	88	86	83	94
90°	1	7	12	16	18	8
95°	43	41	12	16	16	53
105°	222	225	225	225	224	235
115°	416	420	421	418	413	412
125°	592	597	597	594	592	529
135°	738	742	741	739	735	569
145°	856	857	857	858	853	535
155°	942	938	939	942	935	434
165°	994	990	990	995	989	281
175°	1017	1012	1013	1019	1012	97
180°	1017	1017	1017	1017	1017	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	1981.5	1976.8	1961.2	1976.8	1975.2
5°	1972.1	1969.0	1953.3	1967.4	1965.8
7.5°	1958.0	1954.9	1937.7	1951.8	1950.2
10°	1937.7	1934.6	1917.4	1929.9	1928.3
12.5°	1912.7	1906.5	1890.8	1900.2	1900.2
15°	1879.9	1875.2	1858.0	1865.8	1865.8
17.5°	1845.5	1837.7	1820.5	1829.9	1822.1
20°	1800.2	1797.1	1776.8	1787.7	1779.9
22.5°	1754.9	1748.6	1729.9	1736.1	1731.4
25°	1706.4	1698.6	1678.3	1681.4	1676.7
27.5°	1650.2	1645.5	1625.2	1626.7	1622.1
30°	1595.5	1590.8	1567.4	1564.2	1559.5
32.5°	1536.1	1528.3	1508.0	1501.7	1492.4
35°	1473.6	1467.3	1445.5	1437.7	1425.2
37.5°	1409.5	1401.7	1381.4	1370.5	1362.6
40°	1343.9	1336.1	1314.2	1300.1	1295.5
42.5°	1273.6	1267.3	1245.4	1232.9	1225.1
45°	1206.4	1200.1	1181.4	1162.6	1157.9
47.5°	1132.9	1134.5	1111.1	1092.3	1081.4
50°	1062.6	1057.9	1039.2	1018.9	1007.9
52.5°	990.7	987.6	967.3	950.1	937.6
55°	918.9	914.2	892.3	878.2	867.3
57.5°	842.3	840.7	822.0	803.2	798.5
60°	770.4	764.1	747.0	731.3	720.4
62.5°	695.4	690.7	676.6	659.4	651.6
65°	620.4	617.3	600.1	586.0	579.8
67.5°	546.9	540.7	528.2	515.7	512.6
70°	478.2	470.4	456.3	446.9	440.7
72.5°	403.2	398.5	390.7	379.7	373.5
75°	329.7	326.6	318.8	314.1	307.8
77.5°	261.0	259.4	254.7	251.6	246.9
80°	196.9	196.9	193.8	192.2	189.1
82.5°	140.6	137.5	137.5	134.4	134.4
85°	85.9	87.5	87.5	85.9	82.8
87.5°	42.2	42.2	40.6	40.6	37.5
90°	0.8	6.8	12.1	15.8	18.1
92.5°	14.3	7.5	12.1	15.8	16.6
95°	43.0	40.7	12.1	15.8	15.8
97.5°	80.7	85.2	13.6	15.1	15.8
100°	125.9	128.1	131.2	18.8	15.8
102.5°	171.9	174.9	176.4	177.9	114.6
105°	221.6	224.6	224.6	224.6	223.9
107.5°	272.9	272.9	274.4	275.1	272.1
110°	322.6	322.6	324.1	321.9	322.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	369.3	371.6	372.4	369.3	367.8
115°	416.1	419.8	420.6	417.6	413.1
117.5°	465.1	465.1	468.1	463.6	462.1
120°	510.3	509.5	511.8	510.3	506.5
122.5°	550.2	554.0	554.8	553.3	548.7
125°	591.7	597.0	597.0	594.0	591.7
127.5°	631.7	635.4	634.7	633.2	627.1
130°	667.8	671.6	672.4	670.1	666.3
132.5°	704.0	708.5	706.3	706.3	702.5
135°	737.9	742.5	741.0	739.4	734.9
137.5°	769.6	774.1	772.6	772.6	768.8
140°	800.5	802.0	801.3	802.8	798.2
142.5°	828.4	829.1	830.7	830.7	826.1
145°	855.5	857.0	857.0	857.8	853.3
147.5°	879.6	879.6	880.4	881.2	875.9
150°	902.3	900.8	902.3	903.8	897.7
152.5°	924.1	920.3	921.9	923.4	918.1
155°	942.2	937.7	939.2	941.5	935.4
157.5°	956.5	954.3	954.3	956.5	950.5
160°	971.6	967.1	967.8	970.9	964.8
162.5°	983.7	979.1	979.9	984.4	977.6
165°	994.2	989.7	990.4	995.0	988.9
167.5°	1002.5	998.0	998.7	1004.0	997.2
170°	1009.3	1004.0	1004.8	1010.8	1004.0
172.5°	1013.8	1008.5	1010.0	1015.3	1008.5
175°	1016.8	1012.3	1013.1	1019.1	1012.3
177.5°	1019.1	1014.6	1015.3	1020.6	1014.6
180°	1016.8	1016.8	1016.8	1016.8	1016.8

(END OF REPORT)