

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: P1028639

Luminaire Tested: S125RDIP-B1270D375UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028639
REPORT IS A COMBINATION OF REPORTS P1005226 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D375UB35-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

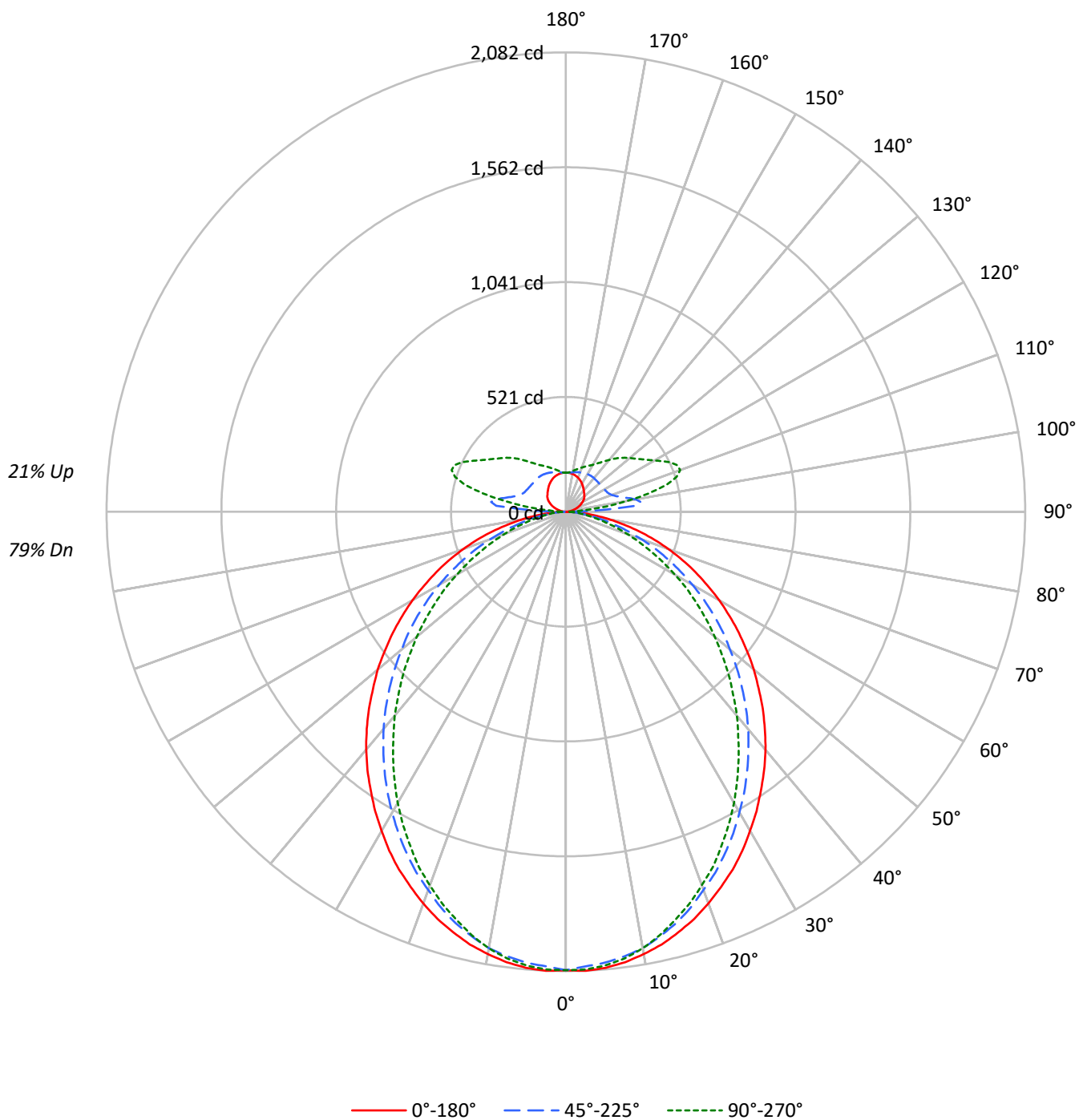
Lumens per Lamp: N/A
Luminaire Lumens: 6242.7 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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
RCR																	
0	114	114	114	114	109	109	109	109	99	99	99		90	90	90		82
1	105	100	96	93	100	96	92	89	88	85	83		80	78	76		74
2	96	88	82	76	91	84	79	74	77	73	69		71	67	64		65
3	87	78	70	64	83	75	68	62	69	63	58		63	59	55		58
4	80	69	61	55	76	66	59	53	61	55	50		56	51	47		52
5	74	62	53	47	70	60	52	46	55	49	44		51	46	41		47
6	68	56	47	41	65	54	46	40	50	43	38		46	41	36		43
7	63	51	42	37	60	49	41	36	45	39	34		42	37	32		39
8	59	46	38	33	56	45	37	32	42	35	31		39	33	29		36
9	55	42	35	29	53	41	34	29	38	32	28		36	30	26		33
10	52	39	32	27	49	38	31	26	35	29	25		33	28	24		31

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	3.1
10°-20°	546.5	8.8
20°-30°	792.4	12.7
30°-40°	902.8	14.5
40°-50°	879.9	14.1
50°-60°	740.5	11.9
60°-70°	518.9	8.3
70°-80°	266.0	4.3
80°-90°	67.1	1.1
90°-100°	133.4	2.1
100°-110°	277.0	4.4
110°-120°	258.8	4.1
120°-130°	209.4	3.4
130°-140°	168.2	2.7
140°-150°	127.0	2.0
150°-160°	89.4	1.4
160°-170°	52.7	0.8
170°-180°	17.1	0.3
0°-30°	1534.4	24.6
0°-40°	2437.2	39.0
0°-60°	4057.7	65.0
0°-90°	4909.7	78.6
90°-120°	669.2	10.7
90°-150°	1173.8	18.8
90°-180°	1333.0	21.4
0°-180°	6242.7	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	3	6	8	8	6
95°	12	35	316	144	84	12
105°	40	56	259	510	473	43
115°	72	87	208	448	527	71
125°	100	117	199	356	415	89
135°	117	141	198	299	345	91
145°	136	156	198	247	272	86
155°	156	168	194	219	228	72
165°	170	175	186	197	200	48
175°	177	177	178	180	180	17
180°	177	177	177	177	177	

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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°	0.4	3.2	5.7	7.5	8.2
92.5°	5.4	29.3	142.5	38.0	26.4
95°	11.8	34.8	316.4	143.6	83.9
97.5°	18.2	37.7	341.7	259.2	183.9
100°	25.0	43.2	322.4	366.4	278.5
102.5°	32.5	49.4	288.5	457.0	384.2
105°	40.4	56.4	258.9	509.8	473.1
107.5°	47.8	63.8	236.7	524.6	526.7
110°	56.1	71.4	222.1	510.4	551.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.3	79.1	213.5	481.0	548.1
115°	72.1	87.0	207.8	448.0	527.1
117.5°	79.3	95.0	204.6	418.0	495.3
120°	86.4	102.6	202.5	392.8	464.6
122.5°	93.9	110.2	200.7	372.6	437.4
125°	100.0	117.2	199.3	356.4	415.3
127.5°	105.0	124.0	198.5	342.5	394.9
130°	109.6	130.4	197.8	328.3	378.9
132.5°	113.2	136.0	197.8	313.2	362.8
135°	117.1	140.8	197.8	298.7	344.9
137.5°	122.1	145.3	198.2	283.6	326.4
140°	126.4	149.1	198.5	269.6	306.7
142.5°	131.4	152.6	198.9	257.6	288.5
145°	136.4	156.2	198.5	247.3	272.1
147.5°	141.8	159.4	197.8	238.4	257.5
150°	146.4	162.3	196.8	231.0	245.7
152.5°	151.4	165.2	195.3	224.8	236.4
155°	155.7	167.5	193.5	218.7	228.2
157.5°	159.6	169.8	191.8	213.0	220.7
160°	163.5	171.6	190.0	207.2	213.2
162.5°	166.8	173.4	187.8	202.1	206.4
165°	170.0	174.6	185.7	196.9	200.0
167.5°	172.1	175.3	183.5	192.1	193.9
170°	174.3	176.2	181.8	187.4	188.5
172.5°	175.7	176.6	179.6	183.7	183.5
175°	176.8	176.8	178.2	180.3	179.6
177.5°	177.5	176.8	177.1	178.2	177.1
180°	177.1	177.1	177.1	177.1	177.1

(END OF REPORT)