

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: P1035915

Luminaire Tested: S125RDIW-B375D1560UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035915
REPORT IS A COMBINATION OF REPORTS P1006471 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B375D1560UB30-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

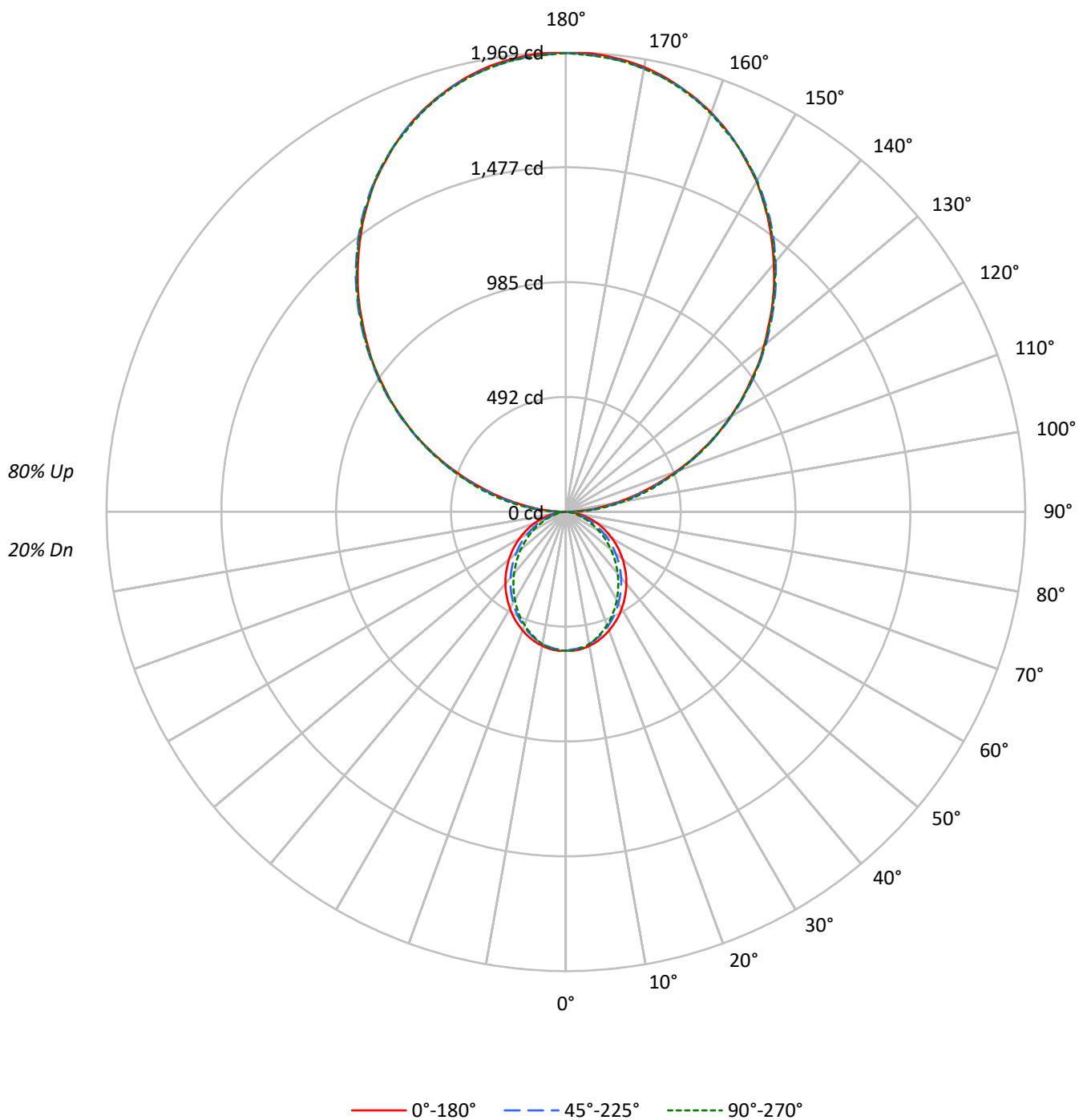
Lumens per Lamp: N/A
Luminaire Lumens: 6898.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 65.2
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	29	29	29
1	91	87	83	80	81	77	74	71	59	57	55	41	40	39	26	25	25	25	25	17
2	83	76	70	66	73	68	63	59	51	48	45	36	35	33	23	22	21	21	21	15
3	76	67	60	55	67	59	54	49	45	41	38	32	30	28	20	19	18	18	18	13
4	69	59	52	46	61	53	46	41	40	36	32	29	26	24	18	17	15	15	15	11
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	16	15	13	13	13	9
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	15	13	12	12	12	8
7	54	42	35	29	47	38	31	27	29	24	21	21	18	16	13	12	10	10	10	7
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	11	9	9	9	7
9	46	35	28	23	41	31	25	21	24	20	17	17	15	12	11	10	8	8	8	6
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	8	8	8	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3815	3815	3815
5°	3816	3721	3727
10°	3779	3627	3595
15°	3725	3495	3421
20°	3659	3338	3240
25°	3583	3184	3045
30°	3490	3014	2840
35°	3395	2842	2623
40°	3305	2665	2411
45°	3197	2474	2189
50°	3087	2271	1963
55°	2959	2072	1729
60°	2829	1844	1485
65°	2673	1589	1223
70°	2491	1294	963
75°	2242	973	701
80°	1890	630	473
85°	1412	339	267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3197 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	0.8
10°-20°	156.6	2.3
20°-30°	227.1	3.3
30°-40°	258.7	3.8
40°-50°	252.2	3.7
50°-60°	212.2	3.1
60°-70°	148.7	2.2
70°-80°	76.3	1.1
80°-90°	22.1	0.3
90°-100°	130.8	1.9
100°-110°	388.4	5.6
110°-120°	658.8	9.6
120°-130°	867.3	12.6
130°-140°	971.8	14.1
140°-150°	952.6	13.8
150°-160°	800.2	11.6
160°-170°	531.9	7.7
170°-180°	186.1	2.7
0°-30°	439.8	6.4
0°-40°	698.5	10.1
0°-60°	1163.0	16.9
0°-90°	1410.1	20.4
90°-120°	1178.0	17.1
90°-150°	3969.7	57.5
90°-180°	5488.0	79.6
0°-180°	6898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	595	593	588	592	592	56
15°	565	563	553	553	549	159
25°	513	506	489	484	479	236
35°	442	431	411	398	391	277
45°	362	349	324	306	299	279
55°	274	260	235	214	207	245
65°	186	170	147	129	122	184
75°	99	86	67	57	54	105
85°	25	17	14	14	14	27
90°	2	14	24	32	37	8
95°	100	102	118	128	132	104
105°	349	356	366	375	380	372
115°	660	666	669	667	666	652
125°	962	972	973	970	969	862
135°	1252	1261	1262	1262	1256	965
145°	1516	1523	1527	1527	1523	948
155°	1735	1735	1737	1743	1735	799
165°	1887	1884	1885	1891	1882	532
175°	1962	1956	1956	1965	1954	186
180°	1966	1966	1966	1966	1966	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	595.5	595.5	595.5	595.5	595.5
2.5°	596.9	595.5	591.0	595.5	595.1
5°	594.6	592.8	587.9	592.4	591.5
7.5°	590.1	588.3	582.5	586.1	585.2
10°	583.4	582.0	575.7	577.1	575.7
12.5°	575.7	573.9	564.9	565.8	563.6
15°	565.4	562.7	553.2	552.8	548.7
17.5°	554.6	550.5	539.3	537.0	533.9
20°	541.5	537.0	522.7	520.4	516.4
22.5°	527.2	522.7	507.4	502.4	499.3
25°	512.8	506.0	489.4	483.5	478.6
27.5°	496.6	488.5	470.9	463.3	458.3
30°	478.6	470.0	451.1	440.8	436.7
32.5°	461.0	450.7	431.3	419.7	414.3
35°	441.7	430.9	410.7	397.6	391.3
37.5°	423.3	410.2	389.5	374.2	367.9
40°	403.5	390.0	368.4	351.3	345.9
42.5°	382.8	368.8	346.3	330.1	321.6
45°	361.6	348.6	323.8	305.9	299.1
47.5°	339.6	326.1	301.4	282.9	275.3
50°	318.9	304.1	278.4	259.5	252.8
52.5°	296.4	281.1	257.3	236.6	229.8
55°	274.4	260.0	234.8	214.5	207.4
57.5°	251.9	236.6	212.3	192.5	186.2
60°	230.3	214.5	190.3	170.5	163.7
62.5°	207.4	192.5	167.8	149.8	143.0
65°	185.8	170.5	146.6	128.6	121.9
67.5°	164.2	148.9	125.9	108.8	103.5
70°	142.1	126.8	104.4	90.4	85.0
72.5°	120.5	105.7	85.0	72.4	69.3
75°	99.0	85.5	66.6	56.7	53.5
77.5°	76.9	66.1	50.4	42.7	40.0
80°	58.5	47.7	35.1	31.0	30.1
82.5°	40.5	31.0	23.4	22.0	21.6
85°	24.7	16.6	14.4	13.9	13.5
87.5°	10.3	7.2	6.7	6.7	6.3
90°	1.5	13.8	24.5	32.1	36.7
92.5°	45.9	53.6	67.3	78.0	81.1
95°	99.5	102.5	117.8	128.5	131.6
97.5°	153.0	154.6	176.0	185.2	186.7
100°	214.2	214.2	234.1	247.9	251.0
102.5°	280.0	287.7	295.3	310.6	315.2
105°	348.9	356.5	365.7	374.9	379.5
107.5°	423.9	431.5	439.2	443.8	443.8
110°	501.9	509.6	514.2	518.8	517.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	581.5	584.6	590.7	592.2	589.1
115°	659.5	665.7	668.7	667.2	665.7
117.5°	739.1	740.6	743.7	745.2	739.1
120°	812.6	820.2	821.7	821.7	815.6
122.5°	892.1	893.7	898.2	896.7	892.1
125°	962.5	971.7	973.2	970.2	968.6
127.5°	1040.6	1045.2	1046.7	1045.2	1042.1
130°	1109.4	1117.1	1120.1	1118.6	1115.5
132.5°	1178.3	1192.1	1190.5	1189.0	1184.4
135°	1251.7	1260.9	1262.4	1262.4	1256.3
137.5°	1320.6	1329.8	1332.8	1334.4	1326.7
140°	1386.4	1394.0	1398.6	1401.7	1394.0
142.5°	1452.2	1458.3	1464.4	1466.0	1458.3
145°	1516.5	1522.6	1527.2	1527.2	1522.6
147.5°	1576.1	1580.7	1583.8	1588.4	1576.1
150°	1635.8	1634.3	1640.4	1640.4	1637.4
152.5°	1684.8	1687.9	1689.4	1694.0	1687.9
155°	1735.3	1735.3	1736.8	1742.9	1735.3
157.5°	1781.2	1778.1	1779.7	1785.8	1775.1
160°	1821.0	1816.4	1817.9	1824.0	1816.4
162.5°	1856.2	1853.1	1853.1	1860.8	1851.6
165°	1886.8	1883.7	1885.3	1891.4	1882.2
167.5°	1914.3	1908.2	1908.2	1917.4	1908.2
170°	1935.8	1929.6	1929.6	1938.8	1928.1
172.5°	1951.1	1944.9	1944.9	1954.1	1944.9
175°	1961.8	1955.6	1955.6	1964.8	1954.1
177.5°	1969.4	1963.3	1961.8	1970.9	1960.2
180°	1966.4	1966.4	1966.4	1966.4	1966.4

(END OF REPORT)