

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: P1012365

Luminaire Tested: S123RDIP-B1165D585UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012365
REPORT IS A COMBINATION OF REPORTS P993066 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D585UB35-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

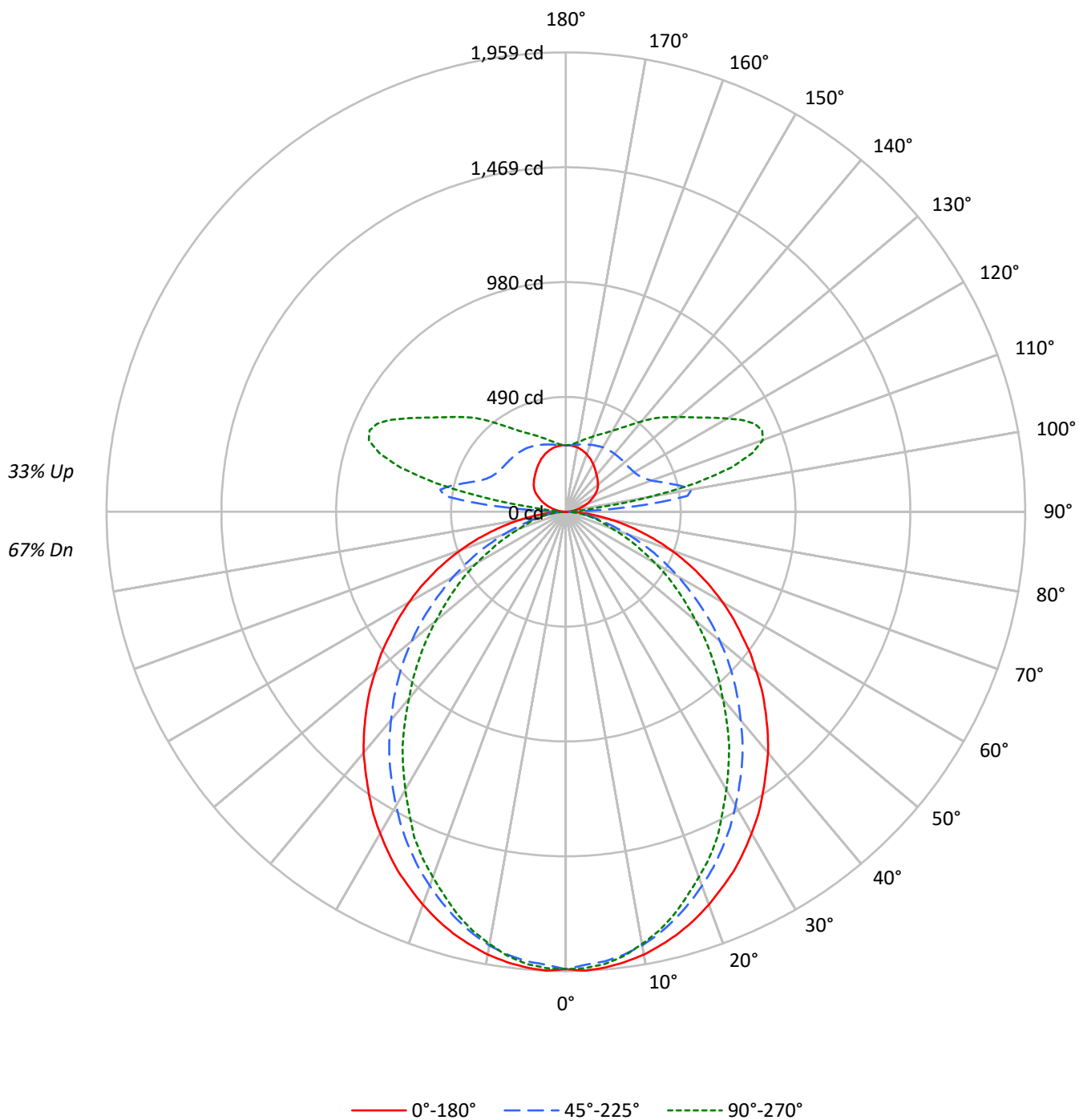
Lumens per Lamp: N/A
Luminaire Lumens: 6545.9 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67		
1	102	98	94	91	96	92	89	86	82	80	77	73	71	69	64	63	62	58		
2	93	86	80	75	88	81	76	71	73	68	65	65	61	59	57	55	53	49		
3	85	76	69	63	80	72	65	60	64	59	55	58	54	50	51	48	45	42		
4	78	68	60	54	74	64	57	51	58	52	47	52	47	43	46	42	39	36		
5	72	61	52	46	68	58	50	45	52	46	41	47	42	38	42	38	35	32		
6	67	55	46	41	63	52	44	39	47	41	36	42	37	33	38	34	31	28		
7	62	49	41	36	58	47	40	35	43	37	32	39	34	30	35	31	27	25		
8	58	45	37	32	54	43	36	31	39	33	29	35	30	27	32	28	25	23		
9	54	41	34	29	51	40	33	28	36	30	26	33	28	24	30	25	22	20		
10	50	38	31	26	48	36	30	25	33	28	24	30	25	22	28	23	20	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20997	20997	20997
5°	21031	20254	20200
10°	20866	19492	19109
15°	20595	18551	17913
20°	20240	17528	16578
25°	19873	16464	15314
30°	19404	15332	13818
35°	18919	14221	12457
40°	18464	13014	10952
45°	17881	11834	9599
50°	17237	10573	8199
55°	16568	9223	6915
60°	15932	7839	5613
65°	15106	6420	4382
70°	14071	4854	3131
75°	12580	3287	2481
80°	10738	2285	1741
85°	8059	1234	911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17881 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	2.8
10°-20°	510.1	7.8
20°-30°	734.5	11.2
30°-40°	827.2	12.6
40°-50°	791.2	12.1
50°-60°	647.7	9.9
60°-70°	436.7	6.7
70°-80°	219.0	3.3
80°-90°	58.8	0.9
90°-100°	161.1	2.5
100°-110°	450.3	6.9
110°-120°	439.1	6.7
120°-130°	349.6	5.3
130°-140°	276.0	4.2
140°-150°	205.9	3.1
150°-160°	143.6	2.2
160°-170°	84.4	1.3
170°-180°	27.4	0.4
0°-30°	1428.0	21.8
0°-40°	2255.2	34.5
0°-60°	3694.0	56.4
0°-90°	4408.6	67.3
90°-120°	1050.4	16.0
90°-150°	1881.9	28.7
90°-180°	2137.0	32.6
0°-180°	6545.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1951	1943	1924	1938	1935	185
15°	1860	1843	1799	1791	1780	524
25°	1693	1653	1580	1547	1530	779
35°	1465	1408	1310	1242	1214	917
45°	1204	1133	1011	921	883	929
55°	914	837	702	611	579	820
65°	625	538	414	337	320	618
75°	331	255	168	152	149	352
85°	84	49	44	41	41	92
90°	1	7	14	16	17	7
95°	20	63	340	99	67	21
105°	67	98	461	807	730	71
115°	118	147	353	774	888	116
125°	164	193	329	597	700	145
135°	192	229	325	492	568	148
145°	219	250	321	403	444	137
155°	248	268	310	353	368	114
165°	271	279	297	315	321	77
175°	283	283	285	289	289	27
180°	284	284	284	284	284	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.7	1950.7	1950.7	1950.7	1950.7
2.5°	1958.6	1952.3	1933.3	1950.7	1947.5
5°	1950.7	1942.8	1923.8	1938.1	1934.9
7.5°	1936.5	1928.6	1904.8	1914.3	1909.6
10°	1917.5	1906.4	1877.9	1879.5	1871.6
12.5°	1890.6	1877.9	1841.5	1840.0	1830.5
15°	1860.5	1843.1	1798.8	1790.9	1779.8
17.5°	1824.1	1805.2	1749.8	1734.0	1718.1
20°	1783.0	1757.7	1697.6	1677.0	1658.0
22.5°	1737.1	1707.1	1642.2	1615.3	1597.9
25°	1692.8	1653.3	1580.5	1547.3	1529.9
27.5°	1639.0	1596.3	1517.2	1472.9	1446.0
30°	1583.7	1536.2	1447.6	1393.8	1368.5
32.5°	1528.3	1472.9	1378.0	1317.9	1291.0
35°	1465.0	1408.1	1310.0	1241.9	1213.5
37.5°	1401.7	1340.0	1237.2	1161.2	1126.4
40°	1341.6	1272.0	1159.7	1077.4	1041.0
42.5°	1273.6	1204.0	1086.9	995.1	963.5
45°	1204.0	1132.8	1011.0	920.8	882.8
47.5°	1135.9	1056.8	936.6	838.5	805.3
50°	1060.0	985.6	857.5	759.4	723.0
52.5°	992.0	909.7	783.1	680.3	648.7
55°	914.4	836.9	702.4	610.7	579.0
57.5°	844.8	761.0	624.9	537.9	511.0
60°	772.1	685.0	553.7	468.3	441.4
62.5°	699.3	612.3	481.0	401.8	373.4
65°	624.9	537.9	414.5	337.0	319.6
67.5°	550.6	462.0	341.7	283.2	264.2
70°	477.8	392.4	281.6	226.2	208.8
72.5°	405.0	321.2	223.1	180.4	175.6
75°	330.7	254.7	167.7	151.9	148.7
77.5°	262.6	193.0	131.3	121.8	118.7
80°	197.8	132.9	99.7	94.9	91.8
82.5°	136.1	82.3	71.2	66.4	66.4
85°	83.9	49.0	44.3	41.1	41.1
87.5°	38.0	20.6	20.6	19.0	17.4
90°	1.1	6.9	14.3	16.0	16.6
92.5°	8.6	34.4	106.7	36.4	30.4
95°	19.5	63.4	340.3	99.2	66.6
97.5°	31.0	72.6	523.4	249.6	136.6
100°	42.5	80.1	543.4	522.2	359.8
102.5°	54.5	88.6	506.1	699.2	569.8
105°	66.6	98.4	461.4	806.8	730.0
107.5°	79.2	109.9	421.8	854.2	834.4
110°	93.0	121.6	389.1	855.6	894.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.6	134.0	367.3	823.2	906.1
115°	117.6	146.6	352.9	773.8	887.8
117.5°	129.7	158.6	343.2	721.0	847.6
120°	142.3	170.8	336.9	671.2	794.8
122.5°	153.2	182.2	332.8	631.8	745.4
125°	163.6	193.2	329.4	596.8	700.1
127.5°	171.6	203.4	327.7	568.2	661.1
130°	179.0	212.6	326.0	541.7	629.0
132.5°	184.8	221.0	325.4	517.0	597.4
135°	191.7	228.6	324.8	491.6	567.6
137.5°	198.0	235.0	323.7	467.4	536.0
140°	204.3	240.8	323.1	443.8	502.7
142.5°	211.2	245.9	321.9	422.4	471.7
145°	218.6	250.5	320.8	403.2	443.6
147.5°	226.1	255.4	319.1	388.2	419.5
150°	233.6	259.4	316.8	375.0	398.8
152.5°	241.0	263.7	313.9	363.5	381.6
155°	248.5	268.0	310.5	353.0	367.8
157.5°	254.2	271.8	307.6	342.6	354.6
160°	261.1	274.9	304.1	333.1	342.0
162.5°	266.3	277.2	300.7	324.2	330.5
165°	271.4	279.2	297.3	315.4	320.8
167.5°	275.5	280.9	293.8	307.5	311.0
170°	278.9	281.8	290.4	300.7	302.4
172.5°	281.2	282.6	287.5	294.7	294.4
175°	282.9	283.2	285.2	289.2	288.7
177.5°	284.1	283.5	283.5	285.8	284.6
180°	283.5	283.5	283.5	283.5	283.5

(END OF REPORT)