

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: P1012359

Luminaire Tested: S123RDIP-B1165D585UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012359
REPORT IS A COMBINATION OF REPORTS P993060 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D585UB30-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

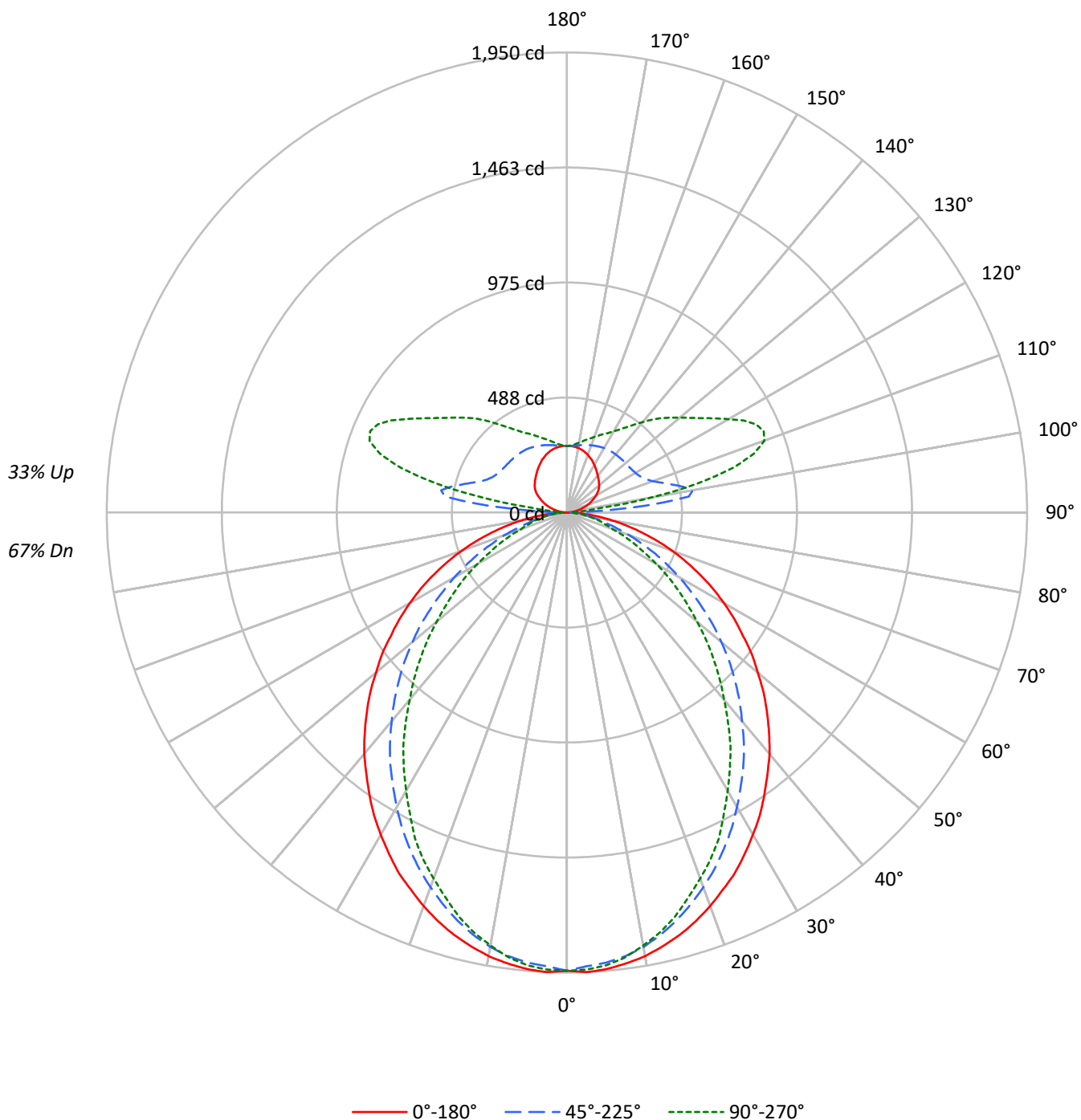
Lumens per Lamp: N/A
Luminaire Lumens: 6517.9 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	20907	20907	20907
5°	20941	20167	20112
10°	20776	19408	19026
15°	20506	18472	17837
20°	20152	17453	16507
25°	19787	16393	15248
30°	19319	15266	13759
35°	18838	14159	12402
40°	18384	12958	10904
45°	17804	11782	9558
50°	17162	10527	8164
55°	16498	9184	6885
60°	15862	7805	5589
65°	15041	6392	4362
70°	14009	4834	3117
75°	12523	3274	2471
80°	10690	2274	1733
85°	8021	1228	909

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17804 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	2.8
10°-20°	507.9	7.8
20°-30°	731.3	11.2
30°-40°	823.6	12.6
40°-50°	787.8	12.1
50°-60°	644.9	9.9
60°-70°	434.8	6.7
70°-80°	218.1	3.3
80°-90°	58.6	0.9
90°-100°	160.4	2.5
100°-110°	448.4	6.9
110°-120°	437.2	6.7
120°-130°	348.1	5.3
130°-140°	274.8	4.2
140°-150°	205.0	3.1
150°-160°	143.0	2.2
160°-170°	84.0	1.3
170°-180°	27.3	0.4
0°-30°	1421.8	21.8
0°-40°	2245.4	34.5
0°-60°	3678.1	56.4
0°-90°	4389.6	67.3
90°-120°	1046.0	16.0
90°-150°	1874.0	28.8
90°-180°	2128.0	32.6
0°-180°	6517.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1942	1934	1916	1930	1926	184
15°	1852	1835	1791	1783	1772	522
25°	1686	1646	1574	1541	1523	775
35°	1459	1402	1304	1237	1208	913
45°	1199	1128	1007	917	879	925
55°	910	833	699	608	576	817
65°	622	536	413	336	318	616
75°	329	254	167	151	148	351
85°	84	49	44	41	41	91
90°	1	7	14	16	17	7
95°	19	63	339	99	66	21
105°	66	98	459	803	727	70
115°	117	146	351	771	884	116
125°	163	192	328	594	697	145
135°	191	228	323	489	565	147
145°	218	249	319	401	442	136
155°	247	267	309	351	366	114
165°	270	278	296	314	319	76
175°	282	282	284	288	287	27
180°	282	282	282	282	282	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1942.3	1942.3	1942.3	1942.3	1942.3
2.5°	1950.2	1943.9	1925.0	1942.3	1939.1
5°	1942.3	1934.4	1915.5	1929.7	1926.5
7.5°	1928.1	1920.2	1896.6	1906.1	1901.3
10°	1909.2	1898.2	1869.8	1871.4	1863.5
12.5°	1882.4	1869.8	1833.6	1832.0	1822.6
15°	1852.5	1835.2	1791.1	1783.2	1772.2
17.5°	1816.3	1797.4	1742.2	1726.5	1710.7
20°	1775.3	1750.1	1690.3	1669.8	1650.9
22.5°	1729.6	1699.7	1635.1	1608.3	1591.0
25°	1685.5	1646.2	1573.7	1540.6	1523.3
27.5°	1632.0	1589.4	1510.7	1466.6	1439.8
30°	1576.8	1529.6	1441.4	1387.8	1362.6
32.5°	1521.7	1466.6	1372.1	1312.2	1285.4
35°	1458.7	1402.0	1304.3	1236.6	1208.2
37.5°	1395.7	1334.2	1231.9	1156.2	1121.6
40°	1335.8	1266.5	1154.7	1072.8	1036.5
42.5°	1268.1	1198.8	1082.2	990.8	959.3
45°	1198.8	1127.9	1006.6	916.8	879.0
47.5°	1131.0	1052.3	932.6	834.9	801.8
50°	1055.4	981.4	853.8	756.1	719.9
52.5°	987.7	905.8	779.8	677.4	645.9
55°	910.5	833.3	699.4	608.1	576.5
57.5°	841.2	757.7	622.2	535.6	508.8
60°	768.7	682.1	551.3	466.3	439.5
62.5°	696.3	609.6	478.9	400.1	371.8
65°	622.2	535.6	412.7	335.5	318.2
67.5°	548.2	460.0	340.3	282.0	263.1
70°	475.7	390.7	280.4	225.3	207.9
72.5°	403.3	319.8	222.1	179.6	174.9
75°	329.2	253.6	167.0	151.2	148.1
77.5°	261.5	192.2	130.7	121.3	118.1
80°	196.9	132.3	99.2	94.5	91.4
82.5°	135.5	81.9	70.9	66.2	66.2
85°	83.5	48.8	44.1	41.0	41.0
87.5°	37.8	20.5	20.5	18.9	17.3
90°	1.1	6.8	14.3	16.0	16.6
92.5°	8.6	34.2	106.3	36.3	30.3
95°	19.4	63.2	338.9	98.8	66.3
97.5°	30.9	72.3	521.2	248.6	136.0
100°	42.3	79.8	541.2	520.0	358.3
102.5°	54.3	88.3	504.0	696.3	567.4
105°	66.3	98.0	459.4	803.4	726.9
107.5°	78.9	109.4	420.0	850.6	830.9
110°	92.6	121.1	387.4	852.0	890.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.1	133.4	365.7	819.8	902.3
115°	117.1	146.0	351.4	770.6	884.0
117.5°	129.1	158.0	341.7	718.0	844.0
120°	141.7	170.0	335.4	668.3	791.4
122.5°	152.6	181.4	331.4	629.2	742.3
125°	162.9	192.3	328.0	594.3	697.2
127.5°	170.9	202.6	326.3	565.8	658.3
130°	178.3	211.7	324.6	539.4	626.3
132.5°	184.0	220.0	324.0	514.9	594.9
135°	190.9	227.7	323.4	489.4	565.2
137.5°	197.1	234.0	322.3	465.4	533.7
140°	203.4	239.8	321.7	442.0	500.6
142.5°	210.3	244.8	320.6	420.6	469.7
145°	217.7	249.4	319.4	401.4	441.7
147.5°	225.1	254.3	317.7	386.6	417.7
150°	232.6	258.2	315.4	373.4	397.2
152.5°	240.0	262.5	312.6	362.0	380.0
155°	247.4	266.9	309.2	351.4	366.3
157.5°	253.1	270.5	306.3	341.2	353.2
160°	260.0	273.8	302.9	331.7	340.6
162.5°	265.1	276.0	299.4	322.9	329.2
165°	270.3	278.0	296.0	314.0	319.4
167.5°	274.3	279.8	292.6	306.3	309.7
170°	277.7	280.6	289.2	299.4	301.2
172.5°	280.0	281.4	286.3	293.4	293.2
175°	281.7	282.0	284.0	288.0	287.4
177.5°	282.9	282.3	282.3	284.6	283.4
180°	282.3	282.3	282.3	282.3	282.3

(END OF REPORT)