

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: P1012358

Luminaire Tested: S123RDIP-B1165D585UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012358
REPORT IS A COMBINATION OF REPORTS P993059 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-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

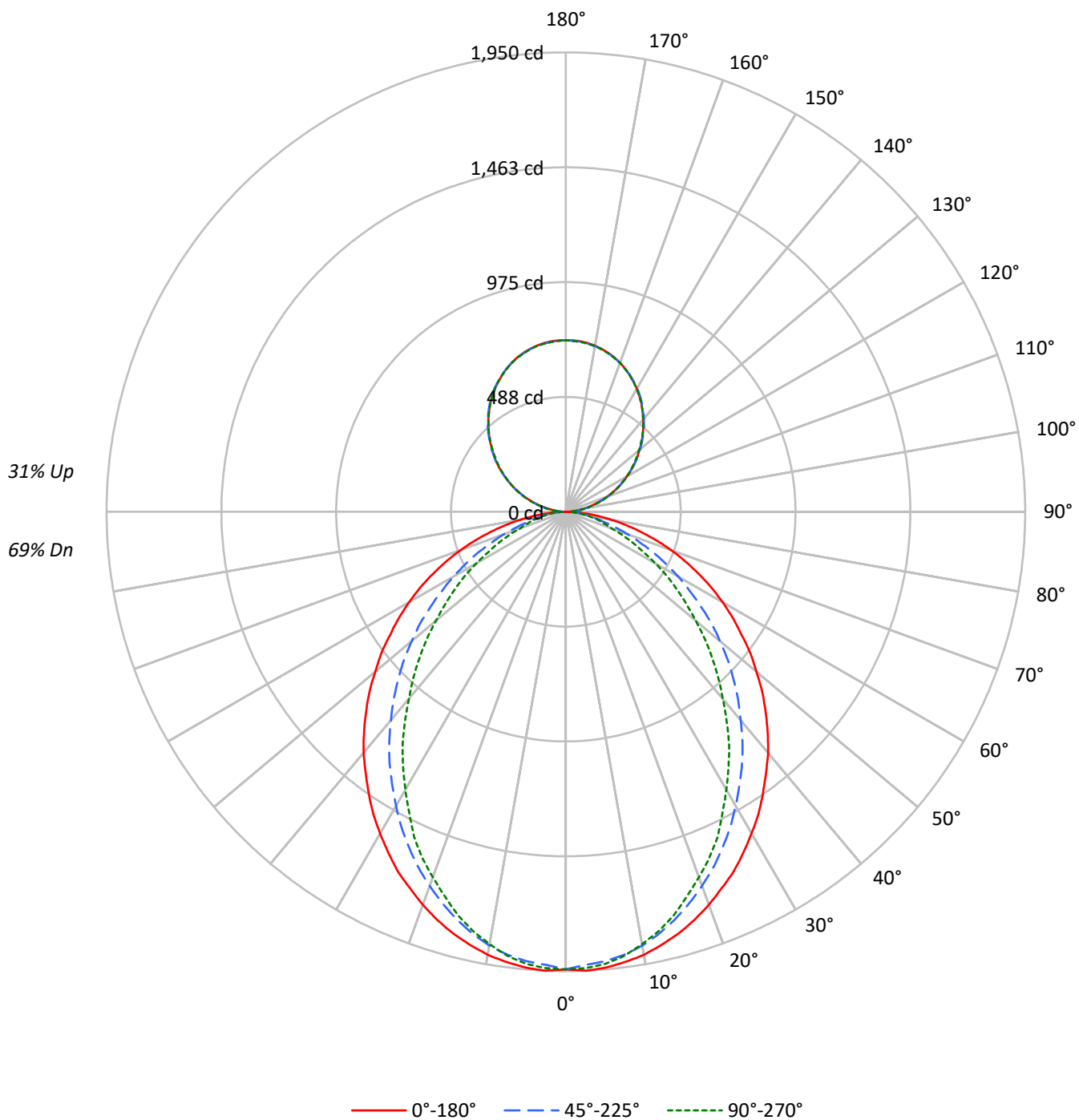
Lumens per Lamp: N/A
Luminaire Lumens: 6406.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73			69
1	102	98	94	91	97	93	89	86	83	80	78	74	72	70	65	64	63			59
2	94	86	80	75	88	82	76	72	73	69	65	65	62	59	58	56	54			50
3	86	76	69	63	81	72	66	60	65	60	55	58	54	51	52	49	46			43
4	79	68	60	54	74	64	57	52	58	52	48	52	48	44	47	43	40			37
5	72	61	53	47	68	58	50	45	52	46	42	47	42	38	42	38	35			32
6	67	55	47	41	63	52	45	39	47	41	37	43	38	34	38	34	31			29
7	62	50	42	36	59	47	40	35	43	37	32	39	34	30	35	31	28			26
8	58	45	37	32	55	43	36	31	39	33	29	36	31	27	32	28	25			23
9	54	42	34	29	51	40	33	28	36	30	26	33	28	24	30	26	23			21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21			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	2.9
10°-20°	507.9	7.9
20°-30°	731.3	11.4
30°-40°	823.6	12.9
40°-50°	787.8	12.3
50°-60°	644.9	10.1
60°-70°	434.8	6.8
70°-80°	218.1	3.4
80°-90°	58.6	0.9
90°-100°	46.8	0.7
100°-110°	141.8	2.2
110°-120°	241.4	3.8
120°-130°	317.6	5.0
130°-140°	356.9	5.6
140°-150°	350.9	5.5
150°-160°	295.4	4.6
160°-170°	196.7	3.1
170°-180°	68.9	1.1
0°-30°	1421.8	22.2
0°-40°	2245.4	35.1
0°-60°	3678.1	57.4
0°-90°	4389.6	68.5
90°-120°	430.0	6.7
90°-150°	1455.5	22.7
90°-180°	2016.0	31.5
0°-180°	6406.0	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	6	14	16	17	8
95°	34	38	42	45	45	37
105°	129	130	135	135	136	138
115°	243	245	244	244	244	240
125°	356	357	356	354	352	317
135°	461	465	464	462	461	355
145°	560	561	562	562	560	350
155°	641	641	641	644	640	295
165°	698	696	696	700	696	197
175°	726	724	724	727	723	69
180°	728	728	728	728	728	

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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°	0.6	6.3	13.7	16.0	17.2
92.5°	17.2	20.6	24.0	25.7	24.6
95°	33.7	37.7	42.3	44.6	44.6
97.5°	55.5	58.3	61.7	64.6	64.0
100°	77.7	81.2	84.0	85.8	86.9
102.5°	103.5	105.2	109.2	110.9	110.3
105°	128.6	129.8	134.9	134.9	136.1
107.5°	158.4	158.9	161.2	162.9	162.4
110°	185.8	186.9	188.1	190.4	189.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.4	215.0	215.0	217.8	217.8
115°	243.0	244.7	243.5	244.1	243.5
117.5°	272.1	272.7	271.5	271.5	269.8
120°	299.0	302.4	299.6	299.0	297.8
122.5°	327.0	329.3	328.1	326.4	324.7
125°	355.6	357.3	356.2	353.9	351.6
127.5°	381.9	385.3	384.2	380.7	378.5
130°	408.2	412.8	411.0	408.8	404.7
132.5°	434.5	439.1	437.9	435.0	432.2
135°	461.3	464.8	464.2	461.9	460.8
137.5°	485.9	488.8	490.5	487.6	485.9
140°	511.7	514.5	515.1	514.5	510.5
142.5°	535.1	538.0	539.1	538.5	535.7
145°	559.7	560.8	562.5	562.0	559.7
147.5°	580.8	583.1	584.8	584.8	581.4
150°	603.1	604.3	605.4	605.4	602.0
152.5°	621.4	623.1	623.7	624.8	622.0
155°	640.9	640.9	641.4	643.7	639.7
157.5°	657.4	656.9	657.4	659.7	656.3
160°	672.9	671.7	671.7	674.6	672.3
162.5°	686.6	684.9	685.4	688.3	684.3
165°	698.0	696.3	696.3	699.7	695.7
167.5°	707.7	705.5	706.0	709.5	706.0
170°	715.7	713.5	713.5	717.5	713.5
172.5°	722.0	719.7	719.7	723.2	719.2
175°	726.0	723.7	723.7	727.2	723.2
177.5°	728.3	726.0	726.0	729.5	725.5
180°	727.7	727.7	727.7	727.7	727.7

(END OF REPORT)