

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: P1000111

Luminaire Tested: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000111
REPORT IS A COMBINATION OF REPORTS P988671 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-F_3000K
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

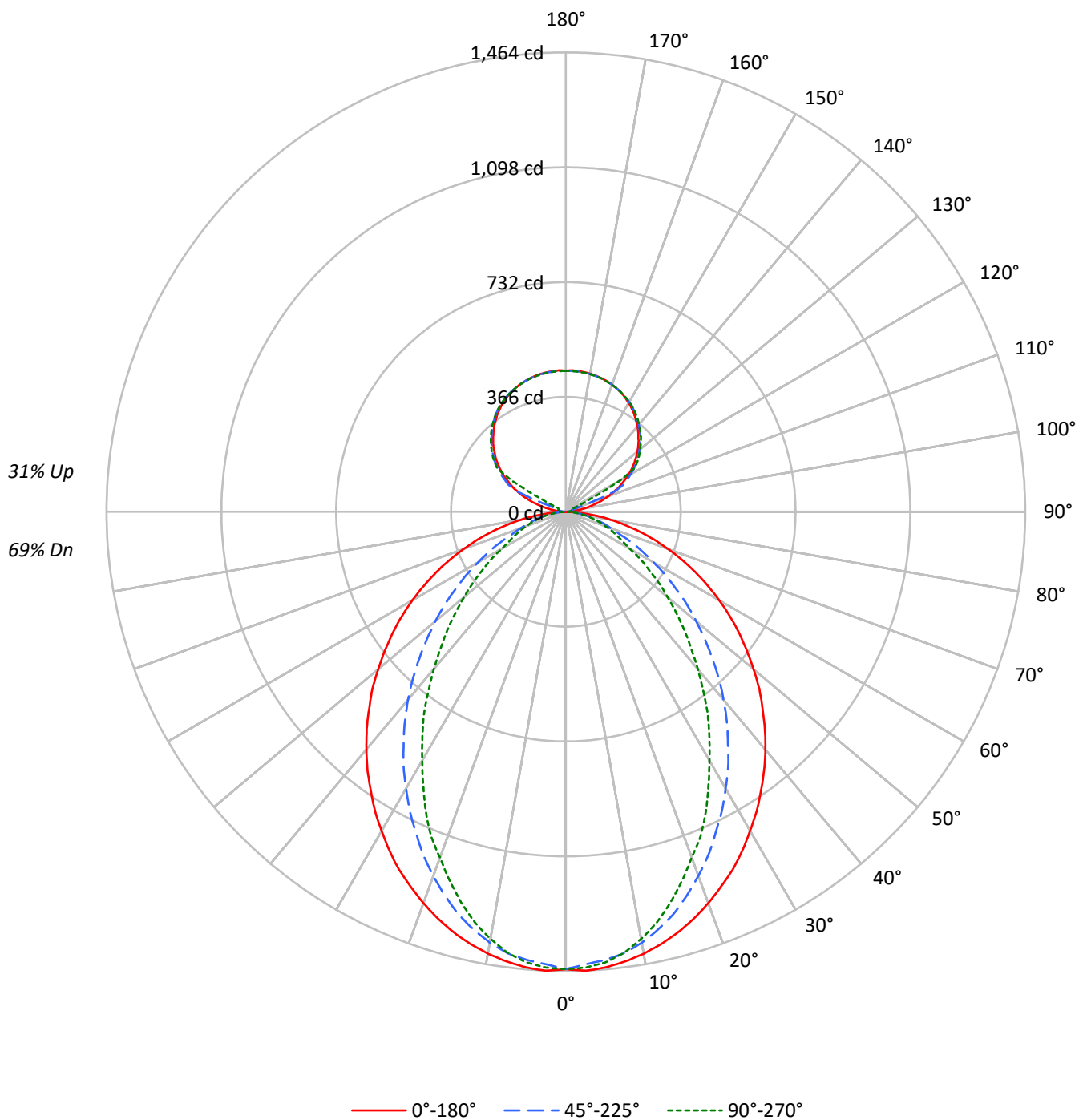
Lumens per Lamp: N/A
Luminaire Lumens: 4317.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	106	106	106	106	94	94	94	84	84	84	74	74	74	69		
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	66	65	64	60		
2	94	87	81	76	89	82	77	73	74	70	66	66	63	60	59	57	55	51		
3	86	77	70	64	81	73	67	62	66	61	57	59	55	52	53	50	47	44		
4	79	69	61	55	75	65	58	53	59	54	49	53	49	45	48	44	41	39		
5	73	62	54	48	69	59	52	46	53	47	43	48	43	40	44	40	37	34		
6	68	56	48	42	64	53	46	41	48	42	38	44	39	35	40	36	33	30		
7	63	51	43	37	60	48	41	36	44	38	34	40	35	31	37	32	29	27		
8	59	46	39	33	55	44	37	32	41	35	30	37	32	28	34	30	26	24		
9	55	43	35	30	52	41	34	29	37	32	27	34	29	26	31	27	24	22		
10	51	39	32	27	49	38	31	26	35	29	25	32	27	23	29	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23074	23074	23074
5°	23112	21953	21790
10°	22884	20821	20133
15°	22570	19484	18246
20°	22154	17965	16272
25°	21727	16405	14465
30°	21155	14887	12491
35°	20594	13356	10797
40°	20025	11853	9052
45°	19361	10300	7531
50°	18676	8803	6131
55°	17962	7306	4867
60°	17133	5843	3682
65°	16179	4454	2993
70°	15028	3231	2381
75°	13577	2464	1818
80°	11481	1668	1219
85°	8009	765	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19361 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	3.2
10°-20°	375.1	8.7
20°-30°	526.6	12.2
30°-40°	574.0	13.3
40°-50°	527.5	12.2
50°-60°	414.3	9.6
60°-70°	269.7	6.2
70°-80°	138.8	3.2
80°-90°	36.2	0.8
90°-100°	14.8	0.3
100°-110°	55.3	1.3
110°-120°	146.6	3.4
120°-130°	243.1	5.6
130°-140°	258.3	6.0
140°-150°	240.0	5.6
150°-160°	193.0	4.5
160°-170°	124.3	2.9
170°-180°	42.8	1.0
0°-30°	1038.2	24.0
0°-40°	1612.2	37.3
0°-60°	2554.0	59.2
0°-90°	2998.8	69.5
90°-120°	216.7	5.0
90°-150°	958.1	22.2
90°-180°	1318.0	30.5
0°-180°	4317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1458	1451	1434	1446	1442	138
15°	1386	1372	1327	1302	1289	391
25°	1258	1216	1129	1075	1055	579
35°	1084	1017	901	818	789	679
45°	886	798	660	566	534	685
55°	674	571	429	350	324	602
65°	455	348	230	185	181	451
75°	243	150	106	96	95	257
85°	57	29	25	25	25	65
90°	0	4	6	8	9	4
95°	21	10	13	14	14	25
105°	99	109	20	23	25	106
115°	187	193	201	50	27	184
125°	264	269	275	277	278	236
135°	327	332	335	339	338	253
145°	380	379	385	387	386	237
155°	418	415	419	421	418	193
165°	440	439	440	442	440	124
175°	451	448	449	451	448	43
180°	450	450	450	450	450	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1464.3	1457.7	1443.2	1456.4	1453.8
5°	1457.7	1451.1	1434.0	1445.9	1441.9
7.5°	1445.9	1437.9	1419.5	1424.7	1418.1
10°	1430.0	1420.8	1394.4	1390.4	1382.5
12.5°	1410.2	1398.4	1362.7	1354.8	1340.3
15°	1386.5	1372.0	1327.1	1302.1	1288.9
17.5°	1358.8	1337.7	1282.3	1253.2	1232.1
20°	1327.1	1300.7	1234.8	1201.8	1172.8
22.5°	1292.8	1262.5	1186.0	1141.1	1121.3
25°	1258.5	1216.3	1129.2	1075.2	1055.4
27.5°	1217.6	1172.8	1076.5	1014.5	984.1
30°	1174.1	1124.0	1018.4	951.1	915.5
32.5°	1131.9	1071.2	963.0	883.9	850.9
35°	1084.4	1017.1	901.0	817.9	788.9
37.5°	1038.2	965.7	843.0	751.9	719.0
40°	989.4	910.3	782.3	688.6	654.3
42.5°	939.3	854.8	721.6	624.0	591.0
45°	886.5	798.1	659.6	565.9	534.3
47.5°	836.4	742.7	600.2	506.6	477.6
50°	781.0	687.3	542.2	451.2	423.5
52.5°	726.9	627.9	486.8	399.7	374.7
55°	674.1	571.2	428.7	349.6	324.5
57.5°	620.0	514.5	377.3	303.4	282.3
60°	564.6	459.1	323.2	255.9	234.8
62.5°	510.5	405.0	277.0	213.7	203.2
65°	455.1	348.3	229.5	184.7	180.7
67.5°	402.4	295.5	184.7	162.3	158.3
70°	347.0	244.1	153.0	139.8	134.6
72.5°	294.2	196.6	128.0	117.4	114.8
75°	242.7	150.4	105.5	96.3	95.0
77.5°	191.3	106.9	83.1	77.8	75.2
80°	143.8	76.5	63.3	58.0	58.0
82.5°	100.3	51.4	43.5	40.9	40.9
85°	56.7	29.0	25.1	25.1	25.1
87.5°	21.1	10.6	10.6	9.2	9.2
90°	0.3	3.9	6.5	8.1	8.8
92.5°	8.1	6.8	7.8	8.5	8.8
95°	21.1	10.4	12.7	14.3	14.0
97.5°	38.1	11.4	16.6	17.6	17.9
100°	57.6	13.0	18.5	21.1	21.8
102.5°	79.1	78.4	19.2	22.8	23.8
105°	98.9	108.7	19.8	23.4	24.7
107.5°	122.0	130.1	20.5	24.1	25.4
110°	144.1	151.0	56.9	24.4	25.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.0	170.8	165.3	25.1	26.0
115°	187.1	192.6	200.7	50.1	26.7
117.5°	206.3	212.8	218.3	171.8	86.5
120°	227.8	232.6	238.5	242.4	198.5
122.5°	246.0	251.2	257.7	259.6	260.0
125°	264.5	268.7	274.9	277.2	278.2
127.5°	281.4	286.0	290.9	294.1	294.5
130°	297.4	302.6	306.2	309.7	309.4
132.5°	313.6	317.9	321.5	324.4	324.1
135°	327.3	332.5	335.4	338.7	338.0
137.5°	341.6	345.5	348.8	352.0	351.1
140°	355.6	358.2	361.8	364.7	363.1
142.5°	367.3	369.6	373.8	376.4	374.8
145°	379.7	379.4	384.9	387.2	385.6
147.5°	390.4	389.5	395.0	396.6	395.3
150°	400.8	398.6	403.8	405.7	404.1
152.5°	409.6	407.0	411.9	413.9	411.6
155°	418.1	415.2	419.1	421.0	418.4
157.5°	424.9	422.3	425.2	427.5	424.9
160°	430.8	428.8	430.8	432.7	430.5
162.5°	436.0	434.0	435.7	437.9	435.0
165°	440.5	438.6	439.6	441.8	439.6
167.5°	444.1	442.2	443.1	445.4	442.5
170°	447.0	445.1	445.7	448.0	445.1
172.5°	449.0	447.0	447.7	450.0	447.0
175°	450.6	448.3	449.0	451.3	448.0
177.5°	451.3	449.0	449.3	451.6	448.7
180°	449.6	449.6	449.6	449.6	449.6

(END OF REPORT)